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# **DYNAMIC SCIENCE, INC.** In-Depth Accident Investigation

Case Number: DSI-95-SP-013

, 1996

**Technical Report Documentation Page** 1. Report No. 2. Government Accession No. 3. Recipient Catalog No DS 9513 4. Title and Subtitle 5. Report Date In-Depth Accident Investigation 6. Performing Organization Report No. 7. Author(s) 8. Performing Organization Report No. Dynamic Science, Inc. 9. Performing Organization name and Address 10. Work Unit No. (TRAIS) Dynamic Science, Inc. 530 College Parkway, Ste. K. 11. Contract or Grant no. Annapolis, MD 21401 DTNH22-94-D-27058 12. Sponsoring Agency Name and Address 13. Type of report and period Covered [Report Month, Year] U.S. Dept. of Transportation (NRD-32) National Highway Traffic Safety Administration 14. Sponsoring Agency Code 400 7th Street, SW Washington, DC 20590 15. Supplemental Notes 16. Abstract This case was selected for investigation based on the fire involvement of the case vehicle and a possible defect that caused the fire. This two-vehicle 1995, a summer weekday, on a divided trafficway in New Jersey. The collision occurred when Vehicle 2, traveling southbound on a northbound roadway of a north/south trafficway, struck Vehicle 1 in a head-on configuration. Vehicle 1, a 1983 Dodge Ram van, was being driven northbound. There were six occupants in this vehicle. It was reported that the driver and the right front occupant was restrained by lap and shoulder restraints. Restraint usage for he other four occupants is unknown. Vehicle 1 was traveling at a speed estimated as between 81 and 97 KPH (50 and 60 MPH). Vehicle 2, a 1991 Toyota Celica, was being driven southbound on the northbound roadway. The driver of Vehicle 2 was not restrained by the available 3-point manual lap and shoulder restraint. Vehicle 2 was traveling at a speed estimated to have been between 81 and 97 KPH (50 and 60 MPH). This two-vehicle collision occurred when the driver of Vehicle 2 entered the northbound roadway of the north/south trafficway from an unknown exit ramp of the northbound roadway. Once the driver of Vehicle 2 entered the roadway he traveled southbound (the wrong direction). Vehicle 2 struck the front end of Vehicle 1 with its frontal plane. After the initial impact, Vehicle 1 rotated clockwise and the rear end of the vehicle went airborne as it rotated. Vehicle 1, as it was in the air and rotating, mounted the median barrier and slid along the top side of the barrier to its final rest position. During this sequence Vehicle 1 subsequently caught fire. Vehicle 2 was pushed rearward and counterclockwise to its final rest position. Vehicle 1's damage consisted of major frontal damage with the maximum crush of 123.0 cm (48.4 in) on the right front corner. This appears to have caused major intrusion into the occupant compartment, including the movement of the engine rearward and to the left. Police indicated that the fire probably started near the carburetor. It appeared that the gas line came off the carburetor during the movement of the engine. The interior inspection of Vehicle 1 conducted by DSI. showed a heavier burn pattern present in the front portion of the vehicle. This burn pattern would support the information from the state police that the fire was started in the engine compartment. 17. Key Words 18. Distribution Statement Fire, crash.

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#### **TECHNICAL SUMMARY**

CONTRACTOR:

Dynamic Science, Inc.

CASE NUMBER:

DS95013

This case was selected for investigation based on the fire involvement of the case vehicle and a possible defect that caused the fire.

This two-vehicle collision occurred in 1995, a summer weekday, on a divided trafficway in New Jersey. The collision occurred when Vehicle 2, traveling southbound on a northbound roadway of a north/south trafficway, struck Vehicle 1 in a head-on configuration.

Vehicle 1, a 1983 Dodge Ram van, was being driven northbound. There were six occupants in this vehicle. It was reported that the driver and the right front occupant was restrained by lap and shoulder restraints. Restraint usage for the other four occupants is unknown. Vehicle 1 was traveling at a speed estimated as between 81 and 97 KPH (50 and 60 MPH).

Vehicle 2, a 1991 Toyota Celica, was being driven southbound on the northbound roadway. The driver of Vehicle 2 was not restrained by the available 3-point manual lap and shoulder restraint. Vehicle 2 was traveling at a speed estimated to have been between 81 and 97 KPH (50 and 60 MPH).

This two-vehicle collision occurred when the driver of Vehicle 2 entered the northbound roadway of the north/south trafficway from an unknown exit ramp of the northbound roadway. Once the driver of Vehicle 2 entered the roadway he traveled southbound (the wrong direction). Vehicle 2 struck the front end of Vehicle 1 with its frontal plane.

The Delta V for Vehicle 1 was computed, using CRASH-3 PC, as 60 KPH (37 MPH). Vehicle 1 was assigned a CDC of 72FDEW7. The Delta V for Vehicle 2 was computed as 88 KPH (55 MPH). Vehicle 2 was assigned a CDC of 72FDEW4.

After the initial impact, Vehicle 1 rotated clockwise and the rear end of the vehicle went airborne as it rotated. Vehicle 1, as it was in the air and rotating, mounted the median barrier and slid along the top side of the barrier to its final rest position. During this sequence Vehicle 1 subsequently caught fire. Vehicle 2 was pushed rearward and counterclockwise to its final rest position.

Vehicle 1's damage consisted of major frontal damage with the maximum crush of 123.0 cm (48.4 in) on the right front corner. This appears to have caused major intrusion into the occupant compartment, including the movement of the engine rearward and to the left. Police indicated that the fire probably started near the carburetor. It appeared that the gas line came off the carburetor during the movement of the engine. The interior inspection of Vehicle 1 conducted by DSI. showed a heavier burn pattern present in the front portion of the vehicle. This burn pattern would support the information from the state police that the fire was started in the engine compartment (photographs 30 -33).

The driver of Vehicle 1 sustained moderate injuries consisting of a closed head injury with positive loss of consciousness and smoke inhalation. The right front occupant sustained major injuries that later resulted in death. The injuries consisted of bilateral lower extremity third degree burns (about 10%), right buttock tissue avulsion, right femur fracture, left open tibia/fibula fractures, myocardial contusion and mild pulmonary inhalation injury. The driver and the right front occupant were rescued from the burning vehicle by a passing motorist, then were transported by ground ambulance to a trauma center. Further rescue attempts of the other four occupants were impossible due to the vehicle's being engulfed by flames. The driver of Vehicle 1 was the sole survivor in this vehicle. The right front occupant and four rear seated occupants of the vehicle reportedly sustained fatal injuries resulting from the fire in the vehicle and the impact with Vehicle 2.

The driver of Vehicle 2 sustained moderate injuries consisting of a loss of consciousness, subarachnoid hematoma, acetabular column fracture, abdominal contusion, and right knee abrasions, contusions and a laceration with the maximum AIS equal to AIS-3. The driver was transported to a trauma center where he was admitted for treatment.

Vehicles 1 and 2 were towed from the collision scene due to the damage sustained from this collision.

This research was supported by the National Highway Traffic Safety Administration (NHTSA), U.S. Department of Transportation. The opinions, findings, and recommendations contained herein are those of the authors, and do not necessarily represent those of NHTSA.

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The crash investigation process is an inexact science which requires that physical evidence such as skid marks, vehicular damage measurements, and occupant contact points be coupled with the investigator's expert knowledge and experience of vehicle dynamics and occupant kinematics in order to determine the pre-crash, crash, and post-crash movements of involved vehicles and occupants.

Because each crash is a unique sequence of events, generalized conclusions cannot be made concerning the crashworthiness performance of the involved vehicle(s) or their safety systems.

#### DYNAMIC SCIENCE, INC. ACCIDENT INVESTIGATION CASE NUMBER: DS95013

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Case Number: DS95013

ACCIDENT DATA:		
Location:	New Jersey	
Area/Type:	Urban	
Date/Time:	Summer / Weekday	
Accident Type:	Car/Van - Head-on	
INJURY SEVERITY:		
Vehicle 1:	Driver, AIS-3	
	R/F Occupant, AIS-4, later reportedly expired	
	Four other occupants in the rear portion of the vehicle, unknown seat positions, reportedly sustained fatal injuries	
Vehicle 2:	Driver, AIS-3	
AMBIENCE:		
Viewing Conditions:	No viewing restriction	
Cloud Cover:	Clear	
Precipitation:	None	
Road Surface:	Dry	

**ROADWAY:** 

VEHICLE 1

**VEHICLE 2** 

Type:

Divided trafficway,

5-lane northbound 5

Divided trafficway, 5-lane northbound

(traveling southbound)

Width:

15.2 m (50.0 ft)

15.2 m (50.0 ft)

**Traffic Density:** 

Light

Light

Median:

Concrete

Concrete

Edge:

Asphalt shoulder

Asphalt shoulder

**Surface:** 

**Asphalt** 

Asphalt

**Reported Defects:** 

None

None

**Co-efficient of Friction** 

.70 dry

.70 dry

(est.):

(000)

Up grade

Down grade

**Horizontal Alignment:** 

**Vertical Alignment:** 

Straight

Straight

**TRAFFIC CONTROLS:** 

**VEHICLE 1** 

**VEHICLE 2** 

Signals:

None

None

Signs:

None

Do Not Enter sign wherever Vehicle 1

entered the northbound

roadway

**Speed Limit:** 

89 KPH (55 MPH)

89 KPH (55 MPH)

**Markings:** 

Standard lane

markings

Standard lane markings

**VEHICLES:** 

VEHICLE 1

**VEHICLE 2** 

**Description:** 

1983 Dodge Ram van

1991 Toyota Celica

**Odometer:** 

Unknown, unable to

Unknown, unable to read

read due to the fire in

a vahiala

due to the damage

the vehicle

**Engine:** 

5.2 L / V8

2.2 L / L4

**Vehicle Modifications:** 

None known

None

Tire Condition:

Good tread depth

Good tread depth

**Manual Restraints:** 

Unable to inspect, fire in vehicle

3-point lap and shoulder restraints at the front

seating positions, left and

right rear seating positions; 2-point lap restraints at the rear center seating position.

**Automatic Restraints:** 

None

Supplemental Restraint

System (driver's side air

bag)

**Reported Defects:** 

None

None

Cargo:

Unknown, fire in

vehicle

None

Windshield Damage:

Unknown, fire in

vehicle

Cracked by impact forces and occupant contact

Fleet:

None

None

**Tow Status:** 

Towed due to

i owed du

Towed due to damage

damage

#### **VEHICLE DAMAGE:**

**VEHICLE 1** 

**VEHICLE 2** 

**Object Struck:** 

Vehicle 2

Vehicle 1

**Event Number:** 

01

01

CDC:

72FDEW7

**72FDEW4** 

**Maximum Crush:** 

123.0 cm (48.4 in) @  $C_6$  105.5 cm (41.5 in) @  $C_6$ 

#### **VEHICLE VELOCITY ESTIMATES:**

**VEHICLE 1** 

**VEHICLE 2** 

**Impact Speed:** 

Total Delta V:

81 - 97 KPH

81 - 97 KPH (50 - 60 MPH)

(50 - 60 MPH)

60 KPH (37 MPH)

88 KPH (55 MPH)

Longitudinal Delta V:

-59 KPH (-37 MPH)

-87 KPH (-54 MPH)

Lateral Delta V:

-10 KPH (-6 MPH)

-15 KPH (-10 MPH)

**Energy Dissipation:** 

474,621.4 joules

228,6616.2 joules

(350,015.8 ft-lbs)

(168,596.0 ft-lbs)

Calculations based upon:

CRASH-3 PC

#### **VEHICLE DAMAGE:**

VEHICLE 1 VEHICLE 1

Object Struck: Fire Median Barrier

Event Number: 03 02

CDC: N/A 09LPLW1

Maximum Crush: Zone 1

#### **VEHICLE VELOCITY ESTIMATES:**

VEHICLE 1 VEHICLE 1

Impact Speed: N/A 40 - 48 KPH

(25 - 30 MPH)

Total Delta V: Not computed, fire in vehicle No Computed, insufficient data

Longitudinal Delta V:

Lateral Delta V:

**Energy Dissipation:** 

Case Number: DS95013

#### **COLLISION SEQUENCE:**

#### PRE-CRASH:

This two-vehicle collision occurred on a summer weekday, on a northbound roadway of a north/south divided trafficway in New Jersey. There is a posted speed limit of 89 kilometers per hour (55 MPH). The collision occurred when Vehicle 2 was traveling southbound (the wrong direction) on the northbound roadway. Vehicle 2 struck Vehicle 1 in a head-on configuration.

Vehicle 1, a 1983 Dodge Ram van, was being driven northbound on the north/south trafficway. The driver was a 59 year old male. In the right front seating position was a 54 year old female. It was reported that the driver and the right front occupant were restrained by lap and shoulder restraints. In the vehicle's rear seating positions, unknown locations, were a 72 year old female, an 80 year old female, a 69 year old female and a 62 year old female. It is unknown if any of the rear occupants were restrained by the available restraint systems in the vehicle. Vehicle 1 was traveling at a speed estimated to have been between 81 and 97 kilometers per hour (50 and 60 MPH).

Vehicle 2, a 1991 Toyota Celica, was being driven southbound by a 24 year old male driver on the northbound roadway. The driver was not restrained by the available 3-point manual lap and shoulder restraint, however, the vehicle had a supplemental restraint system (air bag) that deployed during impact. Vehicle 2 was traveling at a speed estimated to have been between 81 and 97 kilometers per hour (50 and 60 MPH).

This two-vehicle collision occurred when the driver of Vehicle 2 entered the northbound roadway of the north/south trafficway from an unknown exit ramp of the northbound roadway. Once the driver entered the roadway he traveled southbound, the wrong direction on a one-way roadway. Vehicle 2 struck the front end of Vehicle 1 with its frontal plane.

#### **CRASH**:

The Delta V for Vehicle 1 was computed, using CRASH-3 PC, as 60 kilometers per hour (37 MPH). Vehicle 1 was assigned a Collision Deformation Classification (CDC) of 72FDEW7 and a Principle Direction of Force (PDOF) of 010 degrees. The combined direct and induced damage width was 130.0 centimeters (51.2 in) [CRASH "L" = 187.0 cm (73.6 in)], and the maximum crush depth was 123.0 centimeters (48.4 in) located at  $C_6$ .

The Delta V for Vehicle 2 was computed as 88 kilometers per hour (55 MPH). Vehicle 2 was assigned a CDC of 72FDEW4 and a PDOF of 010 degrees. The combined direct and

The Delta V for Vehicle 2 was computed as 88 kilometers per hour (55 MPH). Vehicle 2 was assigned a CDC of 72FDEW4 and a PDOF of 010 degrees. The combined direct and induced damage width was 73.0 centimeters (28.7 in) [CRASH "L" = 140.0 cm (55.1 in)], and the maximum crush depth was 105.5 centimeters (41.5 in) located at  $C_6$ .

#### **POST CRASH:**

After the impact, Vehicle 1 rotated clockwise and the rear end of the vehicle went airborne. Vehicle 1, as it was in the air, mounted the median barrier and slid along the top side of the barrier to its final rest position, facing southeast. During this time frame it appears Vehicle 1 caught fire. Vehicle 2 was pushed rearward and counterclockwise to its final rest position, facing southeast.

#### SUPPLEMENTAL RESTRAINT SYSTEM:

Vehicle 2 was equipped with a Supplemental Restraint System (driver's side air bag). The air bag deployed during the collision with Vehicle 1. The longitudinal component of the Delta V for the air bag deployment impact was a minus 87 kilometers per hour (54 MPH).

#### **SCENE CLEARANCE:**

The driver and right front occupant of Vehicle 1 were reportedly pulled out of the vehicle by a passing motorist. Further rescue attempts of the other four occupants were impossible due to the vehicle's being engulfed by flames. The driver and right front occupant were transported by ground ambulance to a trauma center for treatment. The other four occupants of Vehicle 1 were fatally injured.

The driver of Vehicle 2 reportedly sustained incapacitating injuries in the collision. On arrival at the scene, a police officer removed the driver from his vehicle, because of fuel spilling under the vehicle and the close proximity of Vehicle 1 that was on fire. He was transported by ground ambulance to a trauma center for treatment.

Vehicles 1 and 2 were towed from the collision scene due to the damage sustained from this collision.

#### **SAFETY STANDARDS:**

No violations of the Federal Motor Vehicle Safety Standards were found during vehicle inspections.

#### DRIVER AND OTHER OCCUPANTS:

#### **VEHICLE 1**

**DRIVER** 

**OCCUPANT 2** 

Age/Sex:

59 Yrs. / Male

54 Yrs / Female

**Seated Position:** 

Left Front

Right front

**Seat Type:** 

Bucket Seat / box mounted,

Bucket Seat / box mounted

(van)

(van)

Height:

Unknown

Unknown

Weight:

Unknown

Unknown

**Pre-existing Medical** 

Condition:

None

None

**Body Posture:** 

Upright seated position

Upright seated position

**Hand Position:** 

On Steering Wheel, Unknown

Unknown

location

**Foot Position:** 

Unknown

Unknown

**Restraint Usage:** 

Reportedly wearing a manual

3-point lap and shoulder

3-point lap and shoulder

Reportedly wearing a manual

restraint

restraint

**Additional Occupants:** 

Five

N/A

#### DRIVER AND OTHER OCCUPANTS (Con't):

#### **VEHICLE 1**

OCCUPANT 3 OCCUPANT 4

Age/Sex: 72 Yrs. / Female 80 Yrs / Female

Seated Position: Rear seating position, Rear seating position,

unknown location unknown location

Seat Type: Unknown Unknown

Height: Unknown Unknown

Weight: Unknown Unknown

Pre-existing Medical
Condition:
None

Condition: None None

Body Posture: Unknown Unknown

Hand Position: Unknown Unknown

Foot Position: Unknown Unknown

Restraint Usage: Unknown Unknown

Additional Occupants: N/A N/A

Unknown

#### DRIVER AND OTHER OCCUPANTS (Con't):

#### **VEHICLE 1**

**OCCUPANT 5 OCCUPANT 6** 

Age/Sex: 69 Yrs. / Female 62 Yrs. / Female

**Seated Position:** Rear seating position, Rear seating position, unknown location unknown location

**Seat Type:** Unknown Unknown Height: Unknown Unknown

Weight: Unknown Unknown

**Pre-existing Medical** 

**Condition:** Unknown Unknown

**Alcohol/Drug Involvement:** None None

**Body Posture:** Unknown **Hand Position:** Unknown Unknown

**Foot Position:** Unknown Unknown

**Restraint Usage:** Unknown Unknown

**Additional Occupants:** N/A N/A

#### DRIVER AND OTHER OCCUPANTS (Con't):

#### **VEHICLE 2**

**DRIVER** 

Age/Sex:

24 Yrs. / Male

**Seated Position:** 

Left Front

**Seat Type:** 

**Bucket Seat** 

Height:

Unknown

Weight:

Unknown

**Pre-existing Medical** 

**Condition:** 

None

**Alcohol/Drug Involvement:** 

None

**Driving Experience:** 

8 years

**Body Posture:** 

Upright seated position

**Hand Position:** 

Steering wheel, unknown

location

**Foot Position:** 

Unknown

**Restraint Usage:** 

A supplemental restraint

system (air bag)

**Additional Occupants:** 

None

#### **INJURIES:**

# Vehicle 1

	INJURY	AIS/OIC Code	ICD-9	Source	Confidence Level
DRIVER	Closed head injury w/ positive loss of consciousness	160802.3,0	850.5	Unknown	Unknown
	Smoke inhalation	919202.3,0	986	Fire in vehicle	Certain
R/F OCCUPANT	Bilateral lower extremity third degree burns (about 10%)	892012.2,3	948.1	Fire in vehicle	Certain
	Right buttock tissue avulsion	590800.1,1	877.0	Unknown	Unknown
	Right femur fracture	851800.3,1	820.8	Instrument panel	Probable
	Left open tibia fracture	853404.3,2	823.82	Toe pan	Probable
	Left open fibula fracture	851605.3,2	823.82	Toe pan	Probable
	Myocardial contusion	441002.3,4	861.01	Unknown	Unknown
	Mild Pulmonary inhalation injury	919203.3,0	986	Fire in vehicle	Certain
Four Rear Seat Occupants	Fatal injuries, due to impact and fire in vehicle			·	

# INJURIES (Con't):

# Vehicle 2

	INJURY	AIS/OIC CODE	ICD-9	SOURCE	Confidence Level
DRIVER	Loss of consciousness < 1 hour	160202.2,0	850.1	Windshield	Certain
	Right occipital subarachnoid hematoma	140684.3,1	852.0	Windshield	Certain
	Left upper abdominal quadrant contusion	590402.1,2	922.2	Air bag	Certain
	Right knee abrasions	890202.1,1	916.0	Center instrument panel	Certain
	Right knee contusions	890402.1,1	924.11	Center instrument panel	Certain
	Right knee laceration	890602.1,1	891.0	Center instrument panel	Certain
	Right posterior acetabular column fracture (multiple bone fragments)	852602.2,1	808.0	Center console area	Certain

#### List of Abbreviations

FT Feet IN Inches

AME After Market Equipment AIS Abbreviated Injury Scale

CCW Counterclockwise

CDC Collision Deformation Classification

C/F Center Front
CG Center of Gravity

CM Centimeter
C/R Center Rear
CW Clockwise
E, EB East, Eastbound
FRP Final Rest Position

KG Kilogram

KM/H Kilometers per Hour

L/F Left Front
L/R Left Rear
M Meter

N, NB North, Northbound

NE Northeast NW Northwest

OEM Original Equipment Manufacture PDOF Principal Direction Of Force

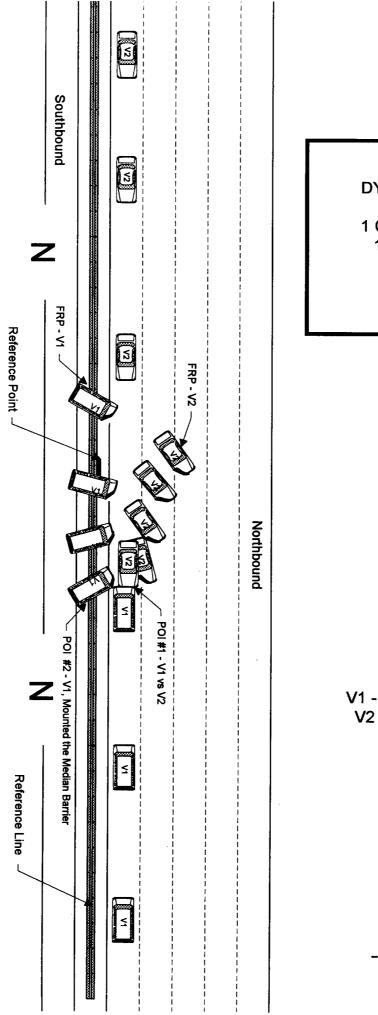
POI Point of Impact
R Radius of Curvature

R/F Right Front
RL Reference Line
RP Reference Point
R/R Right Rear

S, SB South, Southbound

SE Southeast SW Southwest V1 Vehicle 1

W, WB West, Westbound



DYNAMIC SCIENCE DSI-95-SP-013 1 CM = 3.6 METERS 1 IN = 30.0 FEET

) 15' 0" 30' 0"



VEHICLES: V1 - 1983 Dodge Ram van V2 - 1991 Toyota Celica

#### **COLLISION MEASUREMENTS**

Case Number: DSI-95-SP-013

Reference Point:

North end of storm drain, located near the median barrier

Reference Line:

East side of the median barrier

DATA POINT	LONGITUDINALS	LATERALS
Yellow solid line	0	E 1.0 m (3.3 ft)
1st white broken line	0	E 4.1 m (13.3 ft)
2nd white broken line	0	E 7.1 m (23.3 ft)
3rd white broken line	0	E 10.1 m (33.3 ft)
4th white broken line	0	E 13.5 m (43.3 ft)
White solid line (right edge line)	0	E 16.2 m (53.3 ft)
POI #1 (V1 vs. V2)	S 12.1 m (39.8 ft)	E 2.5 m (8.3 ft)
POI #2 (V1 vs. median barrier) approx.	S 11.0 m (36.0 ft)	0
Vehicle 2 Final Rest Position (FRP)		
Right front wheel	S 0.6 m (2.0 ft)	E 7.1 m (23.3 ft)
Right rear wheel	N 0.9 m (2.8 ft)	E 5.9 m (19.2 ft)
Vehicle 1 Final Rest Position (FRP)		
Right front wheel	N 4.1 m (13.5 ft)	0
Left front wheel	N 4.8 m (15.6 ft)	E 1.5 m (5.0 ft)

# **MISSING DATA**

THE FOLLOWING DATA ARE NOT INCLUDED IN THIS CASE:

PAGE NUMBER(S) (17) photo index



































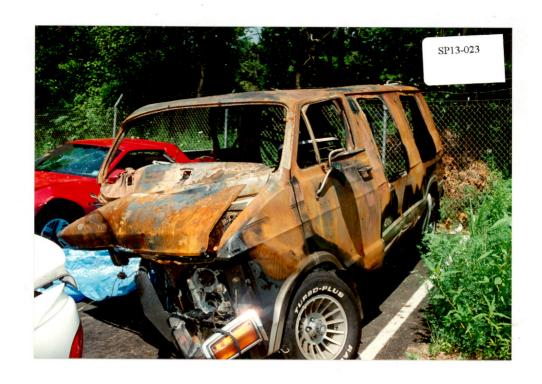


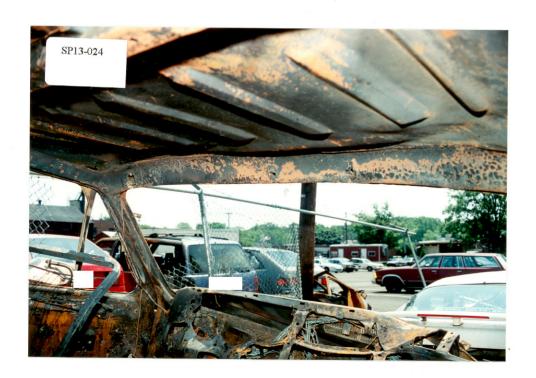








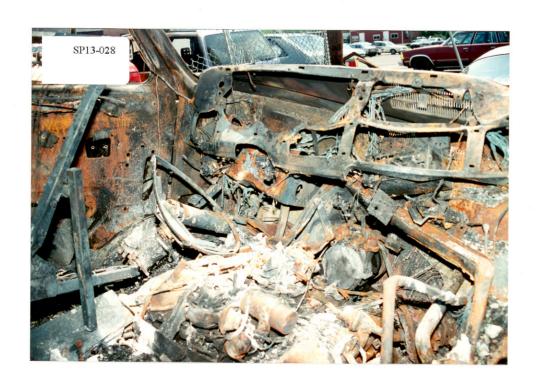
















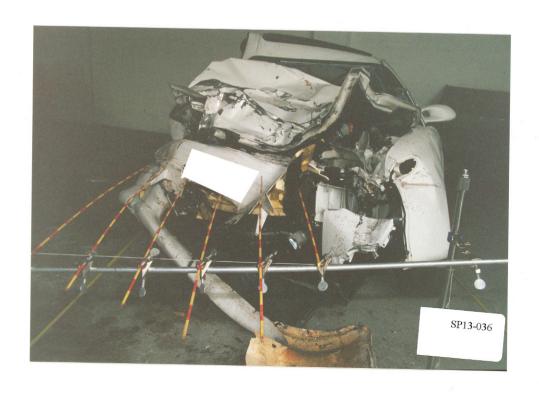




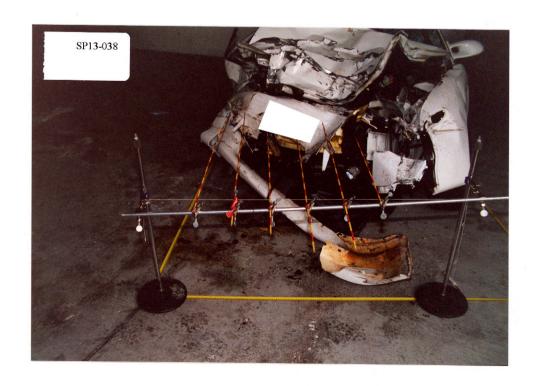


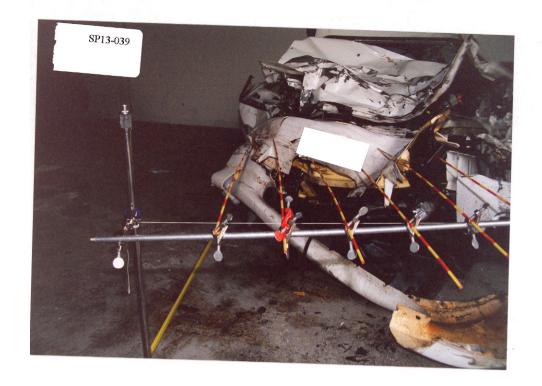




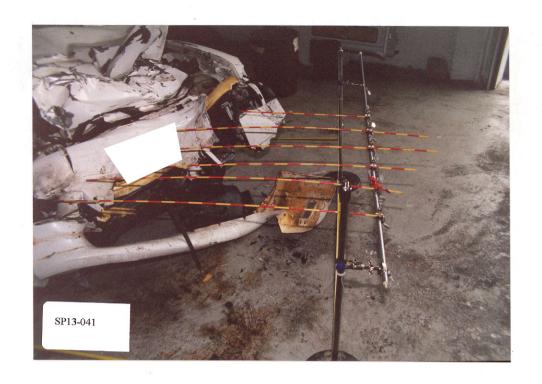












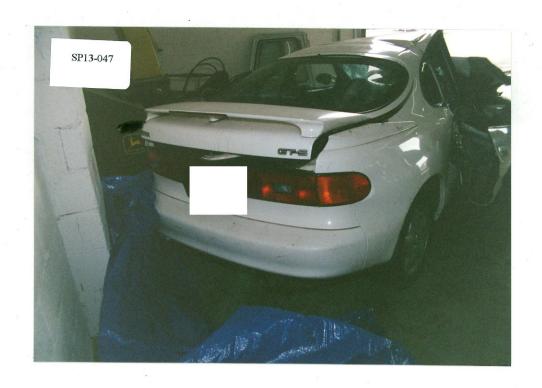








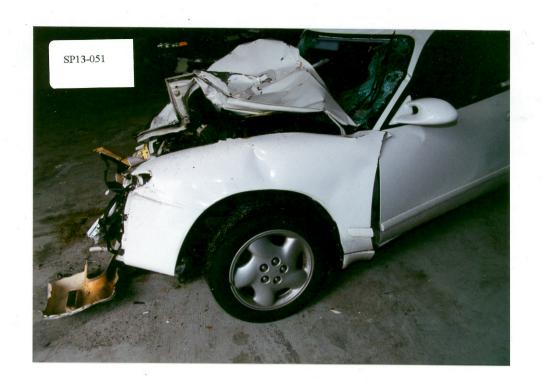






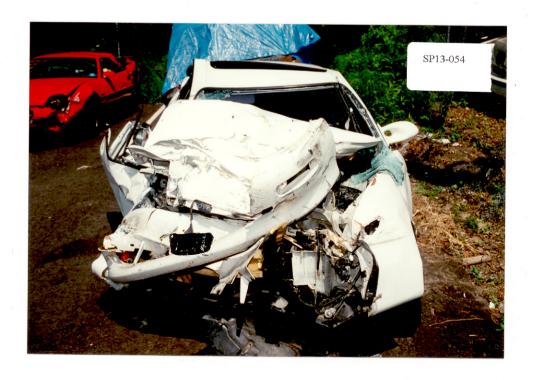




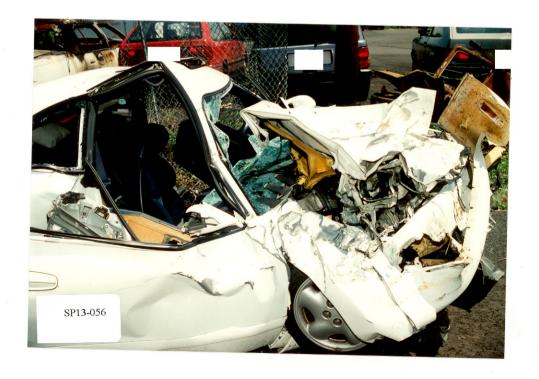






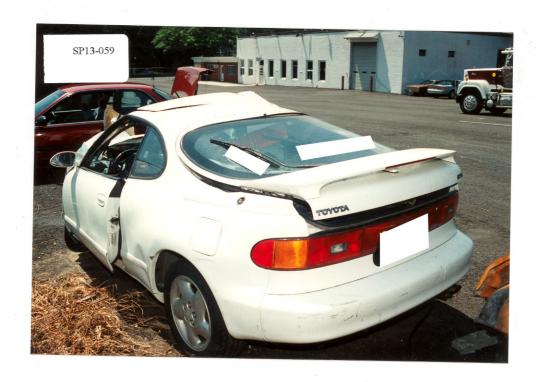
















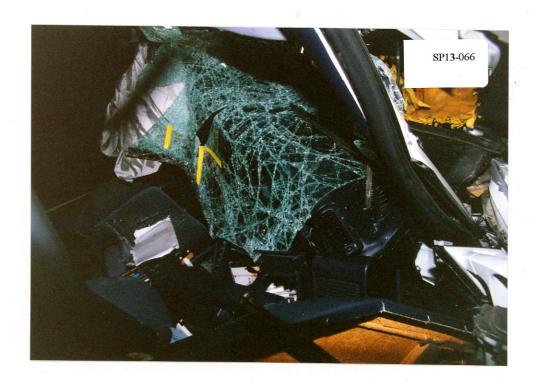


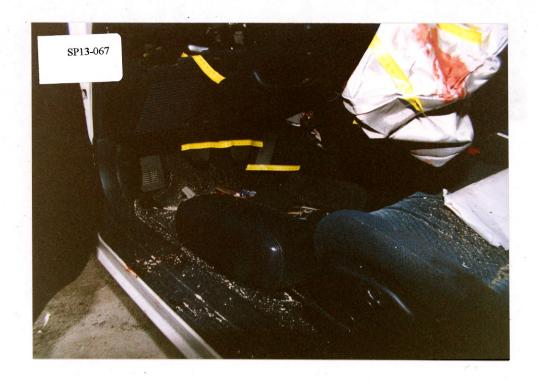




## BESTAVAILABLE





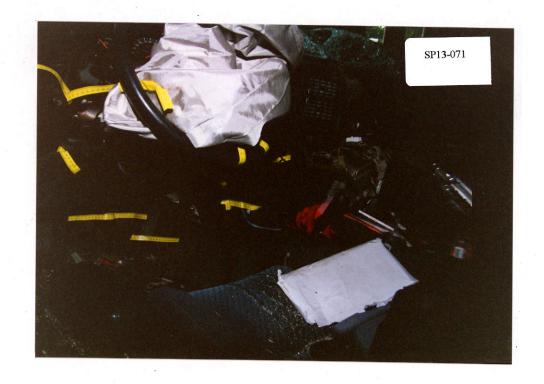




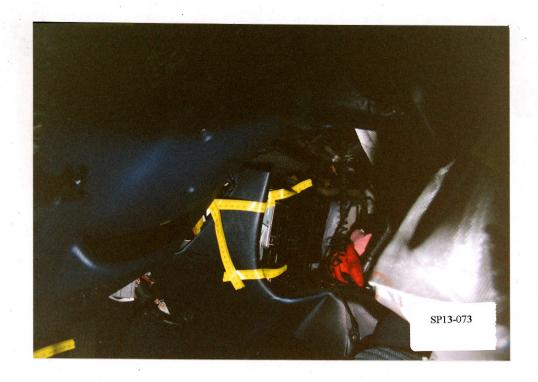


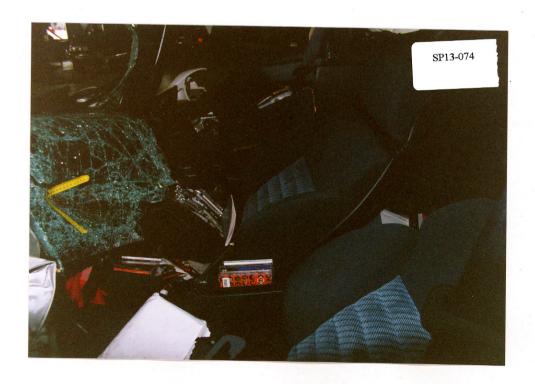


## **BESTAVAILABLE**















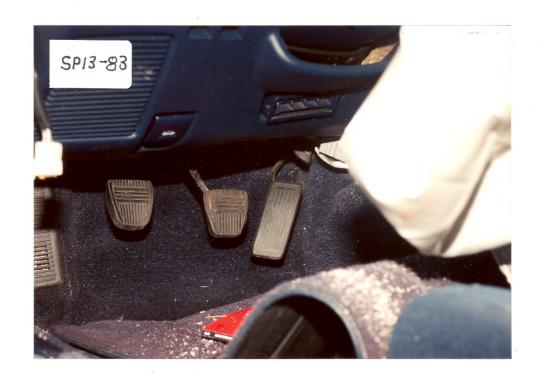
















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	A CASE NO 40 STATION			M SUBATROPAR 11	1									
	11 DATE OF COLLISION 43 DAY OF COLLISION 44 TIME 45 NO.	OF 4	CIDENT INVESTIGATION REPORT	MUN. CODE	1									
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	49 MUNICIPALITY SO MILEPOST	51 011	RECTION SE SERVICE AREA. RAMP. TOLL PL	AZA, OR COMMUTER LOT	1									
- 38	VEH 33 POLICY NO. S4 INS. C	ODE	VEH 79 POLICY NO.	80 INS. CODE	7 .:									
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	SE NUMBER AND STREET	•	82 NUMBER AND STREET		110									
3	57 CITY STATE 71P FYPIE	79	83 QTY STATE	ZIP EXPIRES										
İ	SE DRIVER'S LICENSE NUMBER 59 80 D.O.B. 61	T 52	84 DRIVER'S LICENSE NUMBER	85 86 0.0.8. 87 88 STATE M 0 Y EYES SEX										
2	STATE M O Y EYES	SEX		71 2 M										
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	64 NUMBER AND STREET		90 NUMBER AND STREET	• •.										
2	65 CITY STATE ZIP EXPIR	<i>c. i</i> .	91 CITY STATE	ZIP EXPIRES	1-3									
4	86 MAKE AND MODEL COLOR 87 YEAR 88 PLATE NO. 89	76	92 MAKE AND MODEL COLOR 93 YE	AR 94 PLATE NO. 95 STATE	25									
. 1	DODGE RAM IGN 83		TOYPTA CELICA WT 9	1										
	70 VIN NUMBER 2B7H623TCDK 7800V		NA SUSSTET	97 900Y TYPE 2 D.C.	3									
2	72 VEHICLE REMOVED TO 73 23-00	WER S	96 VEHICLE REMOVED TO	99 G-OVALER	1.38									
· 1		CUCE)		AUTHORITY SOUCE	*									
	74 TRAILER OWNER'S FIRST NAME INITIAL LAST NAME  SAME AS ORIVER	1	100 TRAILER OWNER'S FIRST NAME II SAME AS ORIVER	VITIAL LAST NAME	01									
o Pau	75 NUMBER AND STREET CITY STATE	ZIP 1	101 NUMBER AND STREET	CITY STATE ZIP										
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à 📆	76 MAKE 77 PLATE NO. 78 STATE EXPIRES	ľ	NO PENE NO.	-   DATINES										
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$\overline{I}$	W DO	7	1 WOOD GUIDE RAIL. 4 CONCRETE BARRIER	112 TRAFFIC VOLUME	2									
	TO AFERS DAMAGED, THE CONTROL OF THE STATE O		S. IMPACT ATTENUATORS  6. SIGNS/DELINEATORS	1 LIGHT 4 VERY HEAVY 2 MODERATE 5 STOP & GO										
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	SOVERTURNED CINO		9. CURB. CATCH BASIN, CULVERT 10. ABUTMENT	AIS HAZAPOOUS CONSTITUTE VZ OF	4									
	TO UNIONOMI TENED RESULTS		11. TOLL BOOTH, ABUTMENT, GATE 12. FENCE	ZSPU - SPU										
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1 3 CE TIMENTED	DIMONAMO											
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124 Accident Description												
DRIVER #1 STATED: HE WAS TRAVELUME NORTH	BOWN IN THE LEFT LANE COMMIC FRAM											
	THE SAW A VEHICLE COMING AT HIM HEAD											
ON IN THE LEFT LAVE. HE HAD NO WHEN												
REMEMSER.												
DRIVER + 2: REFUSED TO GIVE A STATEMEN	WT.											
	1. I WAS TRAVELLING MORTHGOUND IN THE LEFT											
	EAD ON IN THE LL BY VEH. 2 TRAVELLING											
SCHTHERLIND IN THE SAME LANE. AFTER IN												
WAS SENT AIRBORNE, STRINCK THE CENTER CON												
SIDE AND CAME TO A FINAL RESTING POSIT												
VEH. 2 REBOUNDED REARWARD COMING TO												
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ALSO FACING SCUTHEAST.	I COMP TO THE A PASSING HOTALIST											
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AND RF PALIENGER FROM VCH. 1. FIRTHER	•											
PALLENGERS IN VEH. I WERE IMPOSIBLE DUC T	· ·											
UPON MY ARRIVAL AT THE SCENE, OFFI	CERS AMS											
125. TROOPER'S SIGNATURE 128. BAOGE	127. STATION 128. TROOP PAGE 2 of 6											
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MOTOR VEHICLE ACCIDENT	DESCRIPTION	N	Case No.	<del></del>	, _ ,	
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AND OF THE	-	PROS.	OFFICE	KESPONE	SED TO ASS	INT THE
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46E 80, 0F		<del></del>			·· •	, FEMILE.
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BESTAVAILABLE







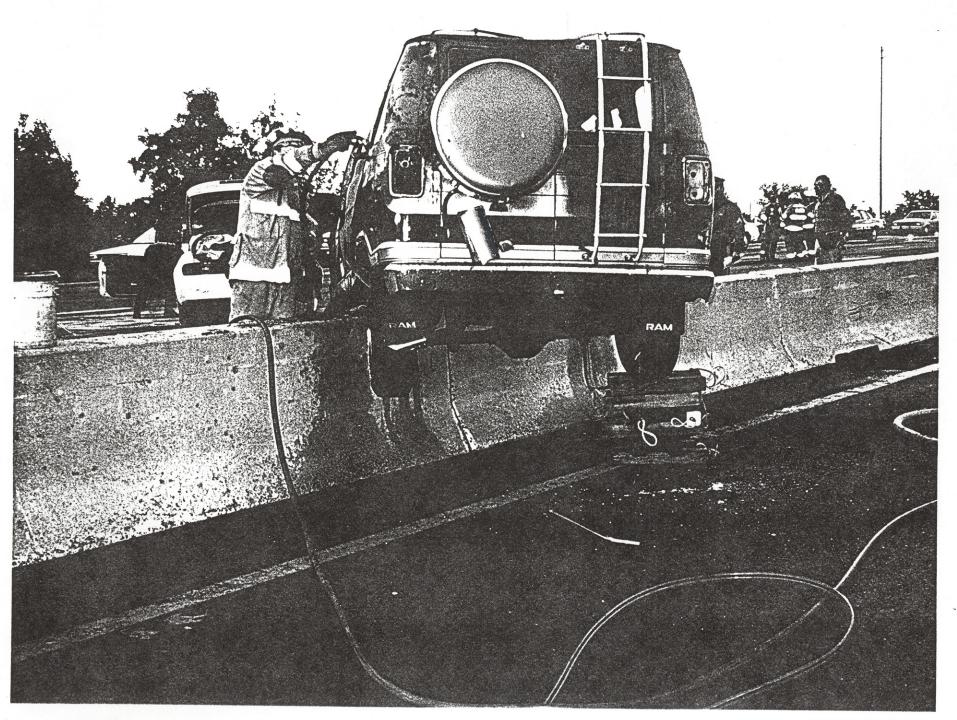
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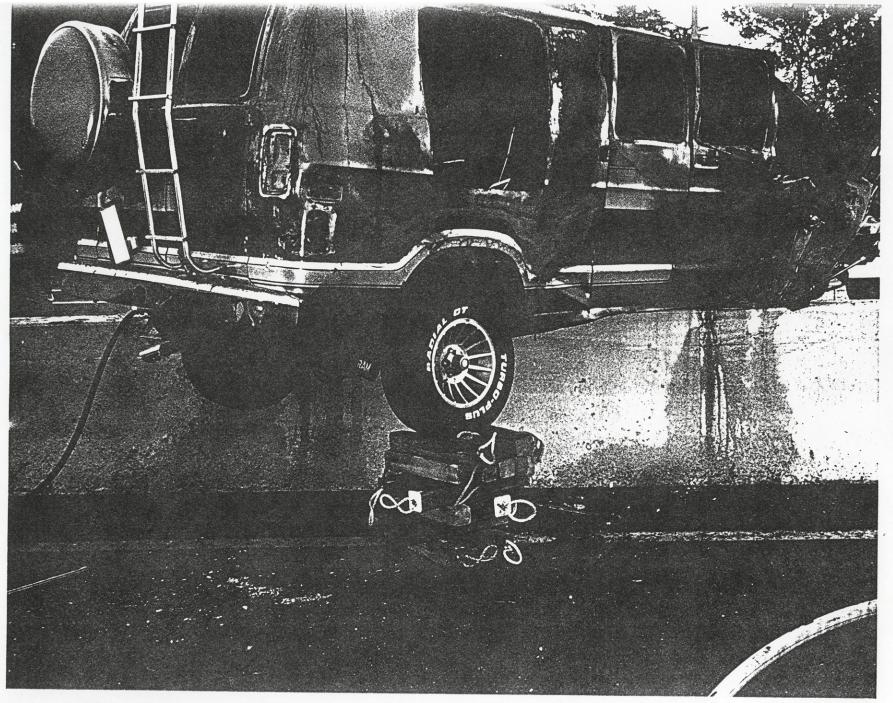
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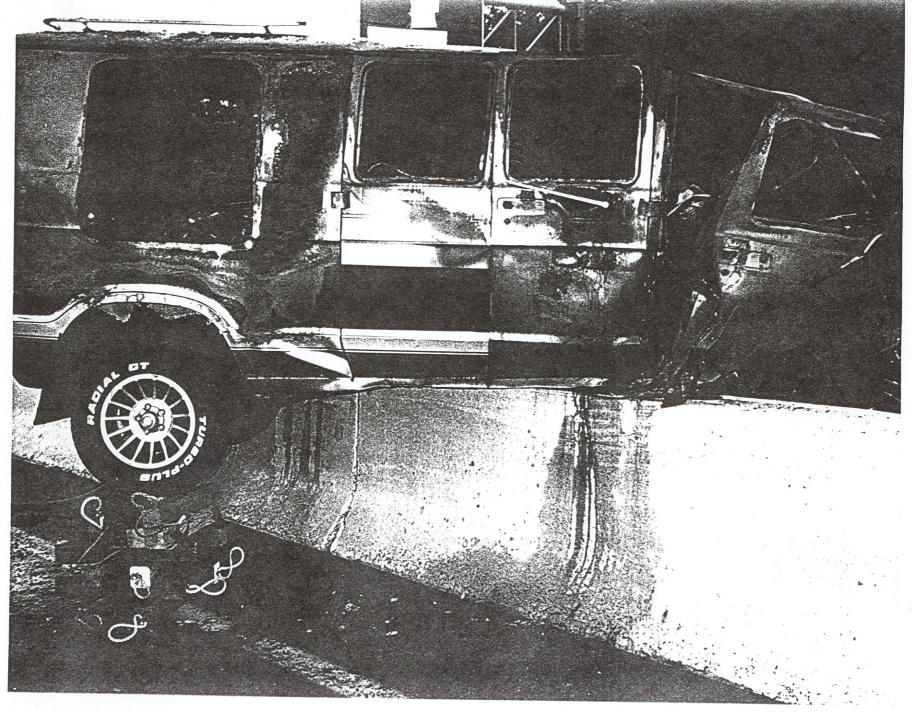
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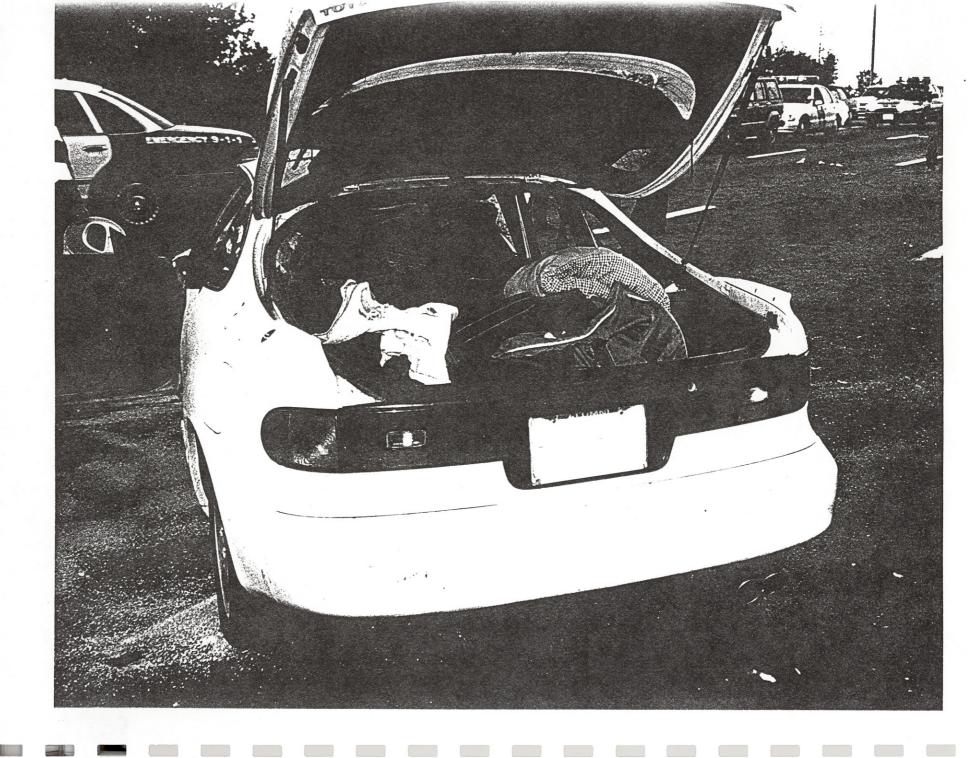
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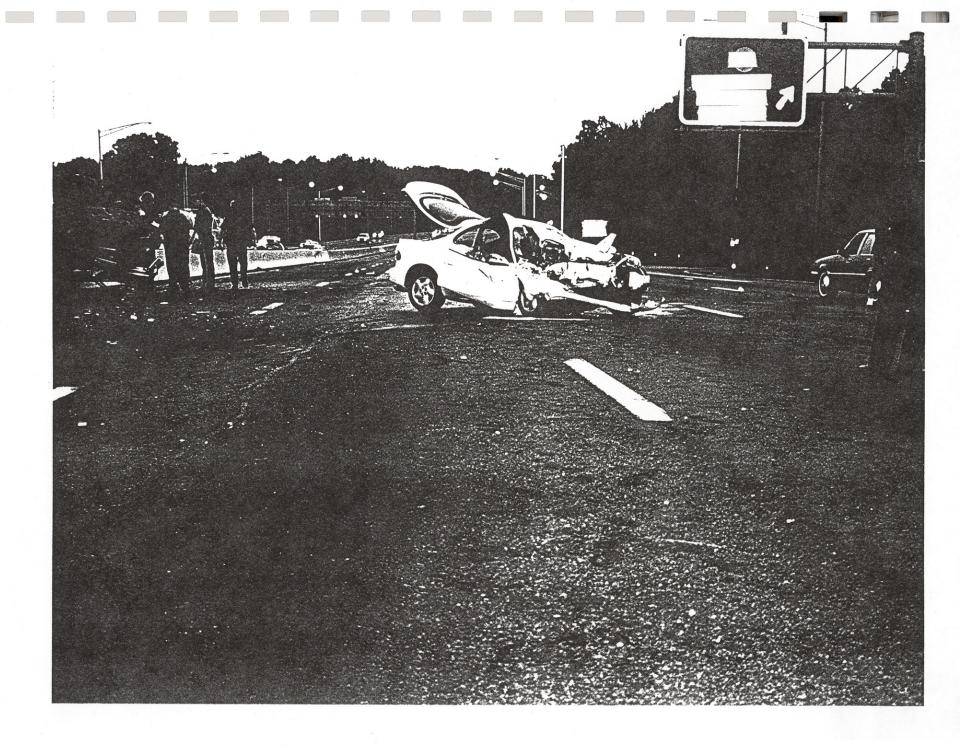


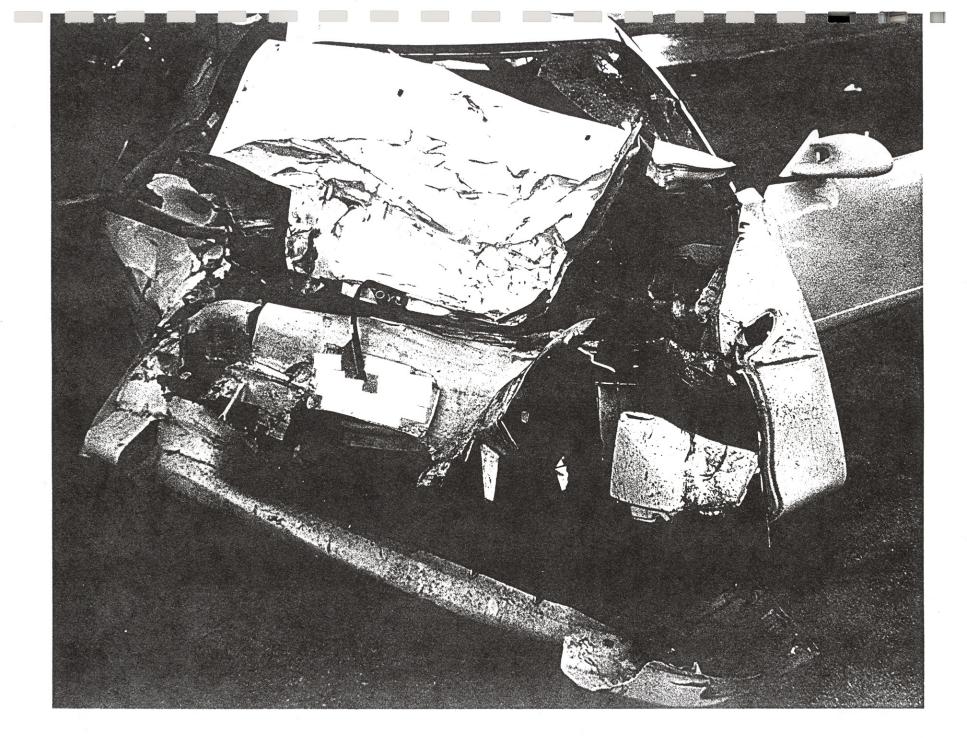
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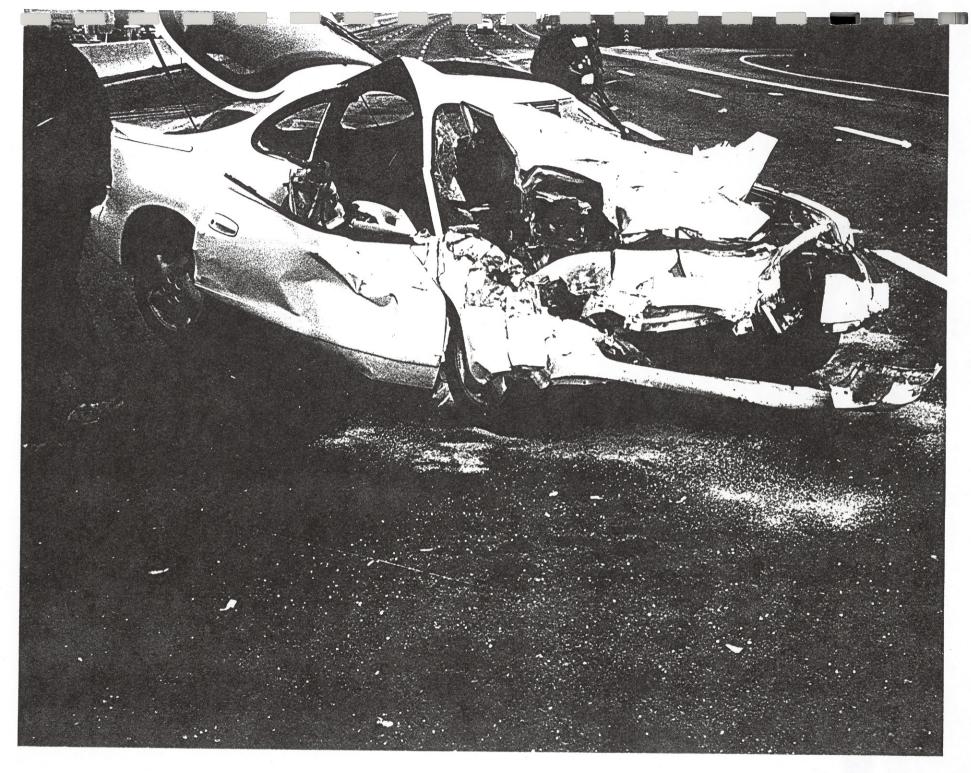


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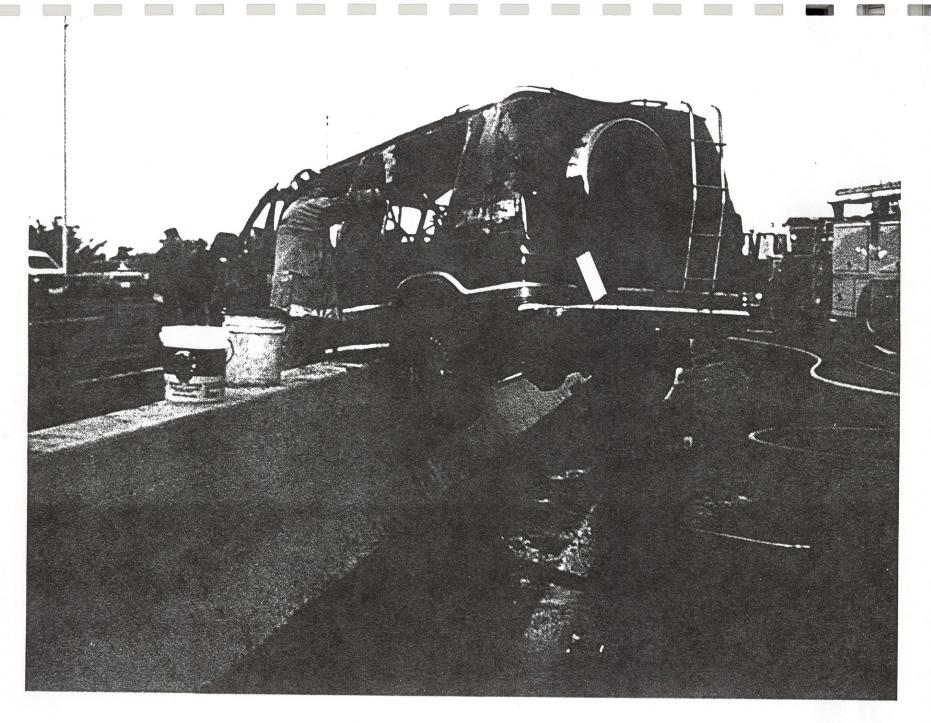








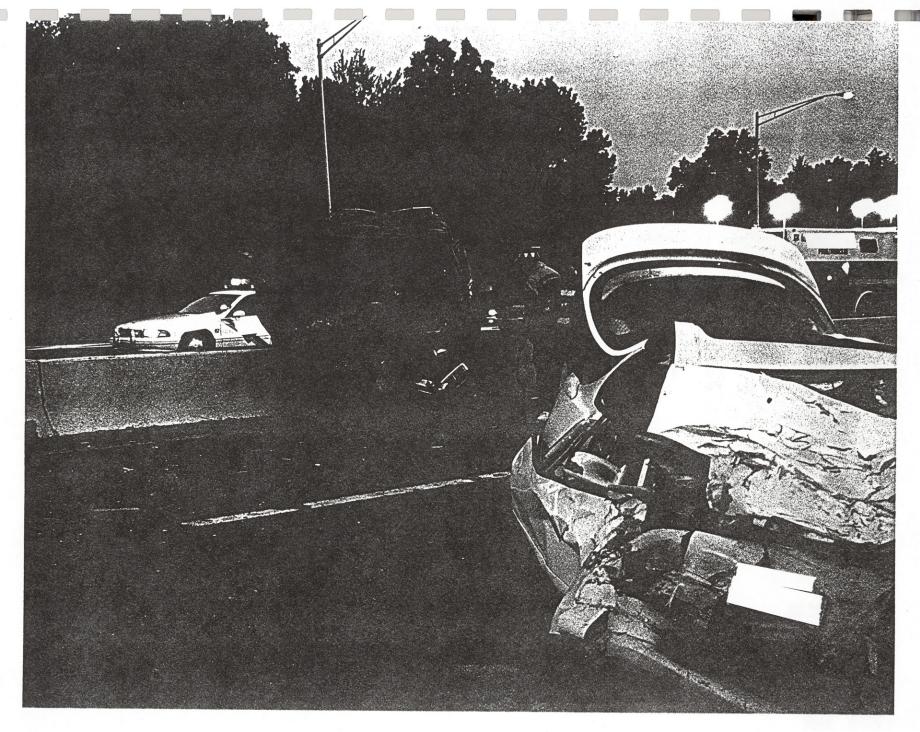
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**BEST AVAILABLE** 

## Summary of Results Using Damage

#### DSI-95-SP-013

Speed Change (Damage)

Vehicle #1

64 km/h ( 40 mph) Total Longitudinal -63 km/h (-39 mph) -11 km/h ( -7 mph) Latitudinal 10°

PDOF Angle

= 429100 Joules ( 316445 Ft-Lb)

Energy Dissipated 72.3 km/h ( 44.9 mph) Barrier Equivalent Speed =

Calculated using size and stiffness categories.

Vehicle #2

94 km/h ( 58 mph) Total Longitudinal -92 km/h ( -57 mph) -16 km/h ( -10 mph) Latitudinal

10° PDOF Angle

= 375132 Joules (276646 Ft-Lb) Energy Dissipated Barrier Equivalent Speed = 83.6 km/h ( 52.0 mph)

Calculated using size and stiffness categories.

#### General Information

	Vehicle #1	Vehicle #2
Year	1983	1991
Make	Dodge	Toyota
Model	Ram Van	Celica
CDC	12FDEW7	12FDEW4
Side Damaged	F	F
PDOF Angle	10 °	10 °
Heading Angle	0 °	180 °
Calculation method:	Size and Stiffness	Size and Stiffness
Size Category	7	2
Stiffness Category	7	2
Vehicle Weight	1978 kgs ( 4361 lbs)	1344 kgs ( 2963 lbs)

2. Case Number - Stratum

## **ACCIDENT FORM**

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

National Highway Traffic Safety Administration

1. Primary Sampling Unit Number

DS1-95-5P-Ø13

**IDENTIFICATION** 

3. Number of General Vehicle Forms Submitted

Ø2

- 4. Date of Accident (Month, Day, Year) Summer (Week Day) 9 5
- 5. Time of Accident

EARLY MARNING

Code reported military time of accident.

NOTE: Midnight = 2400 Unknown = 9999

## SPECIAL STUDIES - INDICATORS

Check ( ) each special study (SS15-SS18 below) that has been completed; code 1 for the checked special studies and 0 for the special studies not checked.

6. \_\_\_\_ SS15 Administrative Use

Ø

7. \_\_\_\_ SS16 Pedestrian Crash Data Study
(Data for this special study available
in a separate file.)

\_\_\_\_\_

8. \_\_\_\_ SS17 Impact Fires

Ø

9. \_\_\_\_ SS18 Unsafe Driver Actions

Ø

10. \_\_\_\_ SS19

## NUMBER OF EVENTS

11. Number of Recorded Events in This Accident

Ø4

Code the number of events which occurred in this accident.

## **ACCIDENT EVENTS**

For each event that occurred in the accident, code the lowest numbered vehicle in the left columns and the other involved vehicle or object in the right columns.

Accident Event Sequence Number	Vehicle Number	Class Of Vehicle	General Area of Damage	Vehicle Number or Object Contacted	Class Of Vehicle	General Area of Damage
12. <u>0</u> <u>1</u>	13. 💋 🖊	14. <u>Ø /</u>	15. <u>F</u>	16. <u>Ø</u> <u>2</u>	17. <u>2 /</u>	18. <u>F</u>
19. <b>0 2</b>	20. <u>Ø</u> 2	21. 2 1	22. <u>L</u>	23. <u>5 4</u>	24. <u>Ø</u> Ø	25. <u>Ø</u>
26. <u>0</u> <u>3</u>	27. 02	28. 2	29. <u>U</u>	30. <u>54</u>	31. <u>Ø</u> <u>Ø</u>	32. <u></u>
33. <u>0 4</u>	34. <u>D</u> <u>Z</u>	35. 2 1	36	37. <u>3</u> 3	38. <u>\$\psi\$</u>	39
40 5	41	42	43	44	45	46

IF GREATER THAN FIVE EVENTS, CONTINUE CODING ON THE ACCIDENT EVENT SUPPLEMENT

			CODES	FOF	R CI	ASS OF	VEHICLE
(01) S (02) C (03) In (04) Fi (05) Li (09) U (14) C (15) Li (16) U (19) U (20) M (21) Li (24) Vi (28) O (29) Ui	compact (wheelbatermediate (wheelbatermediate (wheelbatergest (wheelbatergest (wheelbatergest (wheelbatergest (wheelbatergest (wheelbatergest (wheelbatergest) vehicle tility station wagenknown utility typinivan (≤ 4,500 large van (≤ 4,500 an Based schoother van type (≤ nknown van type	(whe lase : aelbase ≥ : ger chicle e (≤ 4 on (≤ pe kgs 0 kgs 0 kgs 1 bus 4,50e (≤ 4	ar size  4,500 kgs GVWR)  4,500 kgs GVWR)  6VWR)  6 GVWR)  (≤ 4,500 kgs GVWR)			(31) (38) (39) (45) (48) (49) (50) (58) (59) (60) (67) (68) (78) (79) (80) (90)	Large pickup truck (≤ 4,500 kgs GVWR)  Other pickup truck (≤ 4,500 kgs GVWR)  Unknown pickup truck type (≤ 4,500 kgs GVWR)  Other light truck (≤ 4,500 kgs GVWR)  Unknown light truck type (≤ 4,500 kgs GVWR)  Unknown light vehicle type  School bus (excludes van based)(> 4,500 kgs GVWR)  Other bus (> 4,500 kgs GVWR)  Unknown bus type  Truck (> 4,500 kgs GVWR)  Tractor without trailer  Tractor-trailer(s)  Unknown medium/heavy truck type  Unknown light/medium/heavy truck type  Motored cycle  Other vehicle  Unknown
	<u> </u>		CODES FOR CE	NIE D		ADEA OF	DAMAGE (OAD)
CDS AP AND OT VEHICL		(N)	CODES FOR GE Not a motor vehicle Noncollision Front		Rig (L)	AREA OF ht side Left side Back	T DAMAGE (GAD)  (T) Top  (U) Undercarriage  (9) Unknown
TDC APPLIC VEHICL		(N) (F)	Not a motor vehicle Noncollision Front Right side	(L)	(B)	(rear of tra	(C) Rear of cab nit with cargo area (V) Front of cargo area ailer or straight truck) (T) Top r of tractor) (U) Undercarriage (9) Unknown
Noncoli (31) (32) (33) (34) (35)	Overturn — ro Rollover — en Fire or explosie Jackknife Other intraunit	llover d-ove on dam jury	(excludes end-over-end) er-end age (specify):	E NU	 	(57) (58) (59) (60) (61) (62) (63) (64) (68)	Ditch or culvert Ground Fire hydrant Curb Bridge Other fixed object (specify):
(39)  Collision (41) (42) (43) (44) (45)  Nonbrea (50) (51) (52) (53)	Noncollision —  Noncollision —  With Fixed Obj Tree (≤ 10 cm Tree (> 10 cm Shrubbery or b Embankment Breakaway pole akaway Pole or f Pole or post (≤	ect in dia in di	meter) meter) most (any diameter) m in diameter) m but ≤ 30 cm in diameter m in diameter) er unknown)	)	-	(70) (71) (72) (73) (74) (75) (76) (77) (78) (79) (88)	Unknown fixed object  n with Nonfixed Object Passenger car, light truck, van, or other vehicle not in-transport Medium/heavy truck or bus not in-transport Pedestrian Cyclist or cycle Other nonmotorist or conveyance  Vehicle occupant Animal Train Trailer, disconnected in transport Object fell from vehicle in-transport Other nonfixed object (specify):  Unknown nonfixed object
	Other traffic bar	rrier (i	includes guardrail)	<del></del>			Other event (specify):  Unknown event or object

National Highway Traffic Safety Administration	GENERAL VI	EHICLE FORM W	TIONAL ACCIDENT SAMPI CRASHWORTHINESS D	LING SYST
Primary Sampling Unit Number     Case Number - Stratum     Vehicle Number	DS1-95-5P-\$13 \$\display 1	12. Speed Limit (000) No statutory limit Code posted or statutor in kmph (999) Unknown		99
VEHICLE IDENTIFIC  4. Vehicle Model Year Code the last two digits of the mod (99) Unknown  5. Vehicle Make (specify):	del year <u>83</u>	13. Police Reported Alcoho (0) No alcohol present (1) Yes alcohol present (7) Not reported (8) No driver present (9) Unknown	l Presence For Driver	9
Applicable codes are found in you NASS Data Collection, Coding an Editing Manual. (99) Unknown  6. Vehicle Model (specify):  Ran Van Applicable codes are found in you NASS Data Collection, Coding and Editing Manual. (999) Unknown	4 6 1	14. Alcohol Test Result For Code actual value (decin before first digit—0.xx) (95) Test refused (96) None given (97) AC test performed, (98) No driver present (99) Unknown	mal implied	17
<ul> <li>7. Body Type Note: Applicable codes may be for the back of this page.</li> <li>8. Vehicle Identification Number</li> <li>2. B 7 H B 2 3 T 4 D k</li> <li>1. 2. 3 4 5 6 7 8 9 10 11</li> <li>Left justify; Slash zeros and letter 2</li> </ul>	12 13 14 15 16 17 2 ( <b>0</b> and <b>Z</b> )	15. Police Reported Other D Driver (0) No other drug(s) pr (1) Yes other drug(s) p (7) Not reported (8) No driver present (9) Unknown	esent resent	<u>9</u> 9
No VIN—Code all Unknown—Code all nines  9. Vehicle Special Use (This Trip) (0) No special use (1) Taxi (2) Vehicle used as school bus (3) Vehicle used as other bus (4) Military (5) Police (6) Ambulance (7) Fire truck or car (8) Other (specify): (9) Unknown	± DS	(0) No specimen test gi (1) Drug(s) not found in (2) Drug(s) found in speciments	even ecimen, (specify): en, results unknown en test given	or not
<ul> <li>10. Police Reported Vehicle Disposition (0) Not towed due to vehicle dama (1) Towed due to vehicle damage (9) Unknown</li> <li>11. Police Reported Travel Speed Code to the nearest kmph (NOTE: less than 0.5 kmph) (160) 159.5 kmph and above (999) Unknownmph X 1.6093 =kmph</li> </ul>	ge 4	18. Driver's Race/Ethnic Origing (1) White (non-Hispanic) (2) Black (non-Hispanic) (3) White (Hispanic) (4) Black (Hispanic) (5) American Indian, Esk (6) Asian or Pacific Island (7) Other (specify):  (8) No driver present (9) Unknown	imo or Aleut	<u>9</u>

## **CODES FOR BODY TYPE**

## **CDS APPLICABLE VEHICLES**

#### **Automobiles**

- (01) Convertible (excludes sun-roof, t-bar)
- (02) 2-door sedan, hardtop, coupe
- (03) 3-door/2-door hatchback
- (04) 4-door sedan, hardtop
- (05) 5-door/4-door hatchback
- (06) Station wagon (excluding van and truck based)
- (07) Hatchback, number of doors unknown
- (08) Other automobile type (specify):
- (09) Unknown automobile type

#### Automobile Derivatives

- (10) Auto based pickup (includes El Camino, Caballero, Ranchero, Brat, and Rabbit pickup)
- (11) Auto based panel (cargo station wagon, auto based ambulance/hearse)
- (12) Large limousine more than four side doors or stretched chassis
- (13) Three-wheel automobile or automobile derivative

#### Utility Vehicles (≤ 4,500 kgs GVWR)

- (14) Compact utility (Jeep CJ-2 CJ-7, Scrambler, Golden Eagle, Renegade, Laredo, Wrangler, Cherokee [84 and after], Dispatcher, Raider, Bronco II, Bronco [76 and before], Explorer, S-10 Blazer, Geo Tracker, Bravada, S-15 Jimmy, Thing, Pathfinder, Trooper, Trooper II, Rodeo, Amigo, Navajo, 4-Runner, Montero, Passport, Samurai, Sidekick, Rocky)
- (15) Large utility (includes Jeep Cherokee [83 and before], Ramcharger, Trailduster, Bronco-fullsize [78 and after], fullsize Blazer, fullsize Jimmy, Hummer, Landcruiser, Rover, Scout, Yukon)
- (16) Utility station wagon (Chevy Suburban, GMC Suburban, Travelall, Grand Wagoneer, includes suburban limousine)
- (19) Utility, unknown body type

#### Van Based Light Trucks (≤ 4,500 kgs GVWR)

- (20) Minivan (Town and Country, Caravan, Grand Caravan, Voyager, Grand Voyager, Mini-Ram, Vista, Aerostar, Windstar, Villager, Lumina APV, Trans Sport, Silhouette, Astro, Safari, Toyota Van, Toyota Minivan, Previa, Nissan Minivan, Quest, Mitsubishi Minivan, Expo Wagon, Vanagon/Camper.)
- (21) Large van (B150-B350, Sportsman, Royal, Maxiwagon, Ram, Tradesman, Voyager [83 and before], E150-E350, Econoline, Clubwagon, Chateau, G10-G30, Chevy Van, Beauville, Sport Van, G15-G35, Rally Van, Vandura.)
- (22) Step van or walk-in van (≤ 4,500 kgs GVWR)
- (23) Van based motorhome (≤ 4,500 kgs GVWR)
- (24) Van based school bus (≤ 4,500 kgs GVWR)
- (25) Van based other bus (≤ 4,500 kgs GVWR)
- (28) Other van type (Hi-Cube Van, Kary) (specify):
- (29) Unknown van type

# Light Conventional Trucks (Pickup style cab, ≤ 4,500 kgs GVWR)

- (30) Compact pickup (D50, Colt P/U, Ram 50, Dakota, Arrow Pickup [foreign], Ranger, Courier, S-10, T-10, LUV, S-15, T-15, Sonoma, Datsun/Nissan Pickup, P'up, Mazda Pickup, Toyota Pickup, Mitsubishi Pickup)
- (31) Large Pickup (Jeep Pickup, Comanche, Ram Pickup, D100-D350, W100-W350, F100-F350, C10-C35, K10-K35, R10-R35, V10-V35, Silverado, Sierra, R100-R500, T100)

- (32) Pickup with slide-in camper
- (33) Convertible pickup
- (39) Unknown pickup style light conventional truck type

#### Other Light Trucks (≤ 4,500 kgs GVWR)

- (40) Cab chassis based (includes rescue vehicles, light stake, dump, and tow truck)
- (41) Truck based panel
- (42) Light truck based motorhome (chassis mounted)
- (45) Other light conventional truck type
- (48) Unknown light truck type
- (49) Unknown light vehicle type (automobile, utility, van, or light truck)

### OTHER VEHICLES

#### Buses (Excludes Van Based)

- (50) School bus (designed to carry students, not cross country or transit)
- (58) Other bus type (e.g., transit, intercity, bus based motorhome) (specify):
- (59) Unknown bus type

### Medium/Heavy Trucks (> 4,500 kgs GVWR)

- (60) Step van (> 4,500 kgs GVWR)
- (61) Single unit straight truck (4,500 kgs < GVWR ≤ 8,850 kgs)
- (62) Single unit straight truck (8,850 kgs < GVWR ≤ 12,000 kgs)
- (63) Single unit straight truck (> 12,000 kgs GVWR)
- (64) Single unit straight truck, GVWR unknown
- (65) Medium/heavy truck based motorhome
- (67) Truck-tractor with no cargo trailer
- (68) Truck-tractor pulling one trailer
- (69) Truck-tractor pulling two or more trailers
- (70) Truck-tractor (unknown if pulling trailer)
- (78) Unknown medium/heavy truck type
- (79) Unknown truck type (light/medium/heavy)

# Motored Cycles (Does Not Include All-Terrain Vehicles/Cycles)

- (80) Motorcycle
- (81) Moped (motorized bicycle)
- (82) Three-wheel motorcycle or moped
- (88) Other motored cycle (minibike, motorscooter) (specify):\_\_\_\_\_
- (89) Unknown motored cycle type

#### Other Vehicles

- (90) ATV (All-Terrain Vehicle) and ATC (All-Terrain Cycle)
- (91) Snowmobile
- (92) Farm equipment other than trucks
- (93) Construction equipment other than trucks
- (97) Other vehicle type
- (99) Unknown body type

	PRESENCE SALES AND SALES A		
	PRECRASH ENVIRONMENTAL DATA		1
	1	25. Roadway Surface Condition	
19.	. Relation To interchange Or Junction $\underline{\phi}$	(1) Dry	
	(0) Non-interchange area and non-junction	(2) Wet	
	(1) Interchange area related	(3) Snow or slush	
	(1) uncividings also related	(4) Ice	
	Alan International transfers	(5) Sand, dirt, or oil	
	Non-Interchange junctions	(8) Other (specify):	
	(2) Intersection related	(9) Unknown	
	(3) Driveway, alley access related	(9) Unknown	
	(4) Other junction (specify)	1	
		26. Light Conditions	3
	(5) Unknown type of junction	(1) Daylight	<u> </u>
		(2) Daylight	
	(9) Unknown		
	(0) 5	(3) Dark, but lighted	
		(4) Dawn	
20	Trafficway Flow	(5) Dusk	
<b>4</b> 0.		(9) Unknown	
	(0) Not physically divided (two way traffic)	1	
	(1) Divided trafficway-median strip without positive		,
	barrier	27. Atmospheric Conditions	ch
	(2) Divided trafficway-median strip with positive barrier	(0) No adverse atmospheric-related driving	$\rightarrow$
	(3) One way traffic	conditions	
	(9) Unknown		
	(b) Change	(1) Rain	
	<u>'</u> '	(2) Sleet/hail	
21.	Number Of Travel Lanes	(3) Snow	
	(1) One	(4) Fog	
	(2) Two	(5) Rain and fog	
	(3) Three	(6) Sleet and fog	
	(4) Four	(7) Other (e.g., smog, smoke, blowing sand or d	duct
	•	etc.) (specify):	Juot,
	(5) Five	(9) Unknown	
	(6) Six	(a) Olikilowii	
	(7) Seven or more	00 T	-4
	(9) Unknown	28. Traffic Control Device	Ψ_
		(0) No traffic control(s)	,
22		(1) Traffic control signal (not RR crossing)	
	Roadway Alignment	i	
	(1) Straight	Regulatory	
	(2) Curve right	(2) Stop sign	
	(3) Curve left	(3) Yield sign	
(	(9) Unknown	(4) School zone sign	
	· ·	(5) Other regulatory sign (specify):	
~~ [	- · - <del>-</del> - 1	(o) Olive rogulatory olger toposity.	
	Roadway Profile	(6) Warning sign (not RR crossing)	
	(1) Level		
	(2) Uphill grade (>2%)	(7) Unknown sign	
	(3) Hill crest	(8) Miscellaneous/other controls including RR	
	(4) Downhill grade (>2%)	controls (specify):	
	(5) Sag	-	
	(9) Unknown	(9) Unknown	
`	5) CIIKIIOWII	•	
	_ 1		
24. F	Roadway Surface Type	29. Traffic Control Device Functioning	sh.
	(1) Concrete	(0) No traffic control device	4
	(2) Bituminous (asphalt)	(1) Traffic control device not functioning	/
	(3) Brick or block		-
-		(specify)	
	(4) Slag, gravel, or stone	·	
	(5) Dirt	(2) Traffic control device functioning properly	i
	8) Other (specify):	(9) Unknown	
(:	9) Unknown		J

korż Caic-	Configur- ation	ACCIDENT TYPES	(Includes Intent)		EST AVAILABLE
_	A. Right Roadside Departure	DRIVE OFF CONTROL/TRACTION LOSS	AVOID COLLISION WITH VEH., PED., ANIM.	04 SPECIFICS OTHER	06 SPECIFICS
1. Single Driver	B. Left Roadside Departure	DRIVE OFF CONTROL/ ROAD TRACTION LOSS	AVOID COLLISION WITH VEH., PED., ANIM.	09 SPECIFICS OTHER	10 SPECIFICS UNKNOWN
	C Forward Impact	PARKED VEH: STA. OBJECT PEDESTRIANIMAL	AN/ END DEPARTURE	15 SPECIFICS OTHER	16 SPECIFICS
cwa) Inn	D Rear-End	20 22 24 26 26 25 27 STOPPED SLOWER 21. 22. 23 25. 24. 27	28 30 	(EACH • 32)	IEACH • 33
II Sane Trafficway Same Direction	f: Forward Impact	34 <u>36</u> <u>38</u> 37	29, 30, 31  29, 39  COLLISION AVOID COLLI	OTHER  III (EACH .  41  SION SPECIFICS	UNKNOWN
	f. Sideswipe Angle	44 45 45 45 47	(EACH • 48) SPECIFICS OTHER	(EACH SPECIFIC	
, ay Stion	Ci Head-On	50 51 (EACH • 52)  SPECIFICS OTHER	(EACH • 53) SPECIFICS UNKNOW	'n	
Same Trafficway Opposite Direction	H Forward Impact	54 55 56 57 58 CONTROL/ TRACTION LOSS TRACTION LOSS WITH V	COLLISION AVOID COLLIS	<b>→</b> 61	S2)(EACH • 6
<b>=</b>	I. Sideswipe' Angle	65 IEACH • 661  SPECIFICS OTHER	(EACH • 67) SPECIFICS UNKNOW		UNKNOWN
Change Trafficuay Vehicle Turning	J. Turn Across Path	69 71 70 INITIAL OPPOSITE INITIAL SAME DIRECTIONS	73 72 JONS	(EACH • 74	) (EACH • 75)
≥	K. Turn Into Path	77 79 80 TURN INTO SAME DIRECTION TURN INTO	81 83 82	(EACH • 84	I LEACH • 85
ing Palh. (Vehicle Dainage)	L. Straight Paths	87 88 89	(EACH • 90)  SPECIFICS OTHER	(EACH • 91) SPECIFICS UN	
VI Miscel- lancous	M. Backing Eic.	92 93 OTHER VEH. OR OBJECT VEH.	98 Other Acciden 99 Unknown Acc 00 No Impact	t Type ident Type	

PRECRASH DRIVER RELATED DATA	This Vehicle Traveling
30. Driver's Distraction/Inattention To Driving 99	(10) Over the lane line on left side of travel lane
(Prior To Recognition Of Critical Event)	(11) Over the lane line on right side of travel lane
(00) No driver present	(12) Off the edge of the road on the left side
(01) Attentive or not distracted	(13) Off the edge of the road on the right side (14) End departure
(02) Looked but did not see	(15) Turning left at intersection
Distractions (03) By other occupant(s), (specify):	(16) Turning right at intersection
(05) By other occupant(s), (specify).	(17) Crossing over (passing through) intersection
(04) By moving object in vehicle (specify):	(18) This vehicle decelerating (19) Unknown travel direction
(05) While talking or listening to cellular phone (specify	
location and type of phone):	Other Motor Vehicle In Lane
<u> </u>	(50) Other vehicle stopped
(06) While dialing cellular phone (specify location and	(51) Traveling in same direction with lower steady
type of phone):	speed (52) Traveling in same direction while decelerating
(07) While adjusting climate controls	(53) Traveling in same direction with higher speed
(08) While adjusting radio, cassette, CD (specify):	(54) Traveling in opposite direction
(55) Willie adjusting radio, cassette, CD (specify).	(55) In crossover
(09) While using other device/object in vehicle (specify):	(56) Backing
	(59) Unknown travel direction of other motor vehicle in
(10) Sleepy or fell asleep	lane
(11) Distracted by outside person, object, or event	Other Motor Vehicle Encroaching Into Lane
(specify):	(60) From adjacent lane (same direction)—over left
(12) Eating or drinking	lane line
(13) Smoking related	(61) From adjacent lane (same direction)—over right
(97) Distracted/inattentive, details unknown	lane line
(98) Other, distraction (specify):	(62) From opposite direction—over left lane line
	(63) From opposite direction—over right lane line
(99) Unknown	<ul><li>(64) From parking lane</li><li>(65) From crossing street, turning into same direction</li></ul>
31. Pre-Event Movement (Prior to 💋 /	(66) From crossing street, turning into same direction
Recognition of Critical Event)	(67) From crossing street, turning into opposite
(00) No driver present	direction
(01) Going straight	(68) From crossing street, intended path not known
(02) Decelerating in traffic lane (03) Accelerating in traffic lane	(70) From driveway, turning into same direction
(04) Starting in traffic lane	(71) From driveway, across path
(05) Stopped in traffic lane	<ul><li>(72) From driveway, turning into opposite direction</li><li>(73) From driveway, intended path not known</li></ul>
(06) Passing or overtaking another vehicle	(74) From entrance to limited access highway
(07) Disabled or parked in travel lane	(78) Encroachment by other vehicle—details unknown
(08) Leaving a parking position	(1 -)
(09) Entering a parking position	Pedestrian, Pedalcyclist, or Other Nonmotorist
(10) Turning right (11) Turning left	(80) Pedestrian in roadway
(12) Making a U-turn	(81) Pedestrian approaching roadway
(13) Backing up (other than for parking position)	(82) Pedestrian—unknown location
(14) Negotiating a curve	(83) Pedalcyclist or other nonmotorist in roadway (specify):
(15) Changing lanes	(84) Pedalcyclist or other nonmotorist approaching
(16) Merging	roadway (specify):
(17) Successful avoidance maneuver to a previous	(85) Pedalcyclist or other nonmotorist—unknown
critical event	location (specify):
(97) Other (specify):	
(99) Unknown	Object or Animal
()	(87) Animal in roadway (88) Animal approaching roadway
32. Critical Precrash Event 5 4	(89) Animal—unknown location
This Vehicle Loss of Control Due To:	(90) Object in roadway
(01) Blow out or flat tire	(91) Object approaching roadway
(02) Stalled engine	(92) Object—unknown location
(03) Disabling vehicle failure (e.g., wheel fell off)	(98) Other critical precrash event (specify):
(specify):	(00) Halianna
(specify):	(99) Unknown
(05) Poor road conditions (puddle, pot hole, ice, etc.)	
' (specify):	
(06) Traveling too fast for conditions	
(08) Other cause of control loss (specify):	
(09) Haknowa couco of control loca	
(09) Unknown cause of control loss	

STOP HERE IF GV07 DOES NOT EQUAL 01 - 49

OCCUPANT RELATED	44. Vehicle Cargo Weight 9, 9, 9, 0
37. Driver Presence in Vehicle	Code weight to nearest
(0) Driver not present (1) Driver present	(000) Less than 5 kilograms
(9) Unknown	(450) 4,500 kilograms or more (999) Unknown
38. Number of Occupants This Vehicle	lbs X .4536 = kgs
(00-96) Code actual number of occupants	Source:
for this vehicle (97) 97 or more	ROLLOVER DATA
(99) Unknown	
20 Number of Orange 15	45. Rollover (00) No rollover (no overturning)
39. Number of Occupant Forms Submitted $\cancel{\phi} \cancel{\phi}$	Rollover (primarily about the longitudinal axis)
AIR BAG RELATED	(01-16) Code the number of quarter turns
40. Is this an AOPS Vehicle?	(17) Rollover, 17 or more quarter turns (specify):
(0) No (includes unknown) (1) Yes - researcher determined	(98) Rollover-end-over-end (i.e., primarily about
(2) VIN determined air bag system	the lateral axis) (99) Rollover (overturn), details unknown
<ul> <li>(1) Yes - researcher determined</li> <li>(2) VIN determined air bag system</li> <li>(3) VIN determined automatic (passive) belts</li> <li>(4) VIN determined air bag and automatic (passive)</li> </ul>	
belts	46. Rollover Initiation Type (00) No rollover
41. Air Bag(s) Deployment, First Seat Frontal	(01) Trip-over
(0) Not equipped or not available	(02) Flip-over (03) Turn-over
(1) No air bags deployed	(04) Climb-over
Single Air Bag Vehicle (2) Driver air bag deployed	(05) Fall-over (06) Bounce-over
(3) Driver air bag, unknown if deployed	(07) Collision with another vehicle
Multiple Air Bag Vehicle (4) Driver side only deployed	(08) Other rollover initiation type specify):
(5) Passenger side only deployed	(98) Rollover-end-over-end
(6) Driver and passenger side deployed	(99) Unknown rollover initiation type
deployed	47. Location of Rollover Initiation
(8) Air bag(s) deployed, details unknown (9) Unknown	(0) No rollover (1) On roadway
,	(2) On shoulder—paved (3) On shoulder—unpaved (4) On roadside or divided trafficway median
42. Air Bag(s) Deployment, Other Than First Seat	(4) On roadside or divided trafficway median
Frontal	(8) Rollover-end-over-end (9) Unknown
<ul> <li>(0) Not equipped with an "other" air bag</li> <li>(1) Deployed during accident (as a result of impact)</li> </ul>	1
(2) Deployed inadvertently just prior to accident	48. Rollover Initiation Object Contacted (Note: Applicable codes on back of page)
(3) Deployed, details unknown (4) Deployed as a result of a noncollision event	,
during accident sequence (e.g., fire, explosion,	49. Location on Vehicle Where Initial Principal Tripping Force Is Applied
electrical) (5) Unknown if deployed	(0) No rollover
(7) Nondeployed	(1) Wheels/tires (2) Side plane
(9) Unknown	(3) End plane
Specify type of "other" air bag present:	(4) Undercarriage (5) Other location on vehicle (specify):
	(6) Non-contact rollover forces (specify):
VEHICLE WEIGHT ITEMS	(8) Rolloverend-over-end
	(9) Unknown
43. Vehicle Curb Weight / 5 6 0	50. Direction of Initial Roll
Code weight to nearest	(0) No rollover (1) Roll right - primarily about the longitudinal axis
10 kilograms. (045) Less than 450 kilograms	(2) Roll left - primarily about the longitudinal axis
, (610) 6,100 kilograms or more	(8) Rolloverend-over-end (9) Unknown roll direction
(999) Unknown \$\Phi 3, 4 \ \frac{7}{3} \ \text{lbs X .4536} = \frac{1}{5} \frac{5}{7} \frac{5}{5} \text{kgs}\$	, , , , , , , , , , , , , , , , , , , ,
, · · · · ·	1
Source:_	

# **CODES FOR ROLLOVER INITIATION OBJECT CONTACTED**

	No rollover 30) — Vehicle Number	(57) (58)	Fence Wall
Noncol		(59) (60)	Building Ditch or culvert
(31)	Turn-over — fall-over	(61)	
(32)	No rollover impact initiation (end-over-end)	(62)	Fire hydrant
(34)	Jackknife	(63)	Curb
	•	(64)	
Collisio	n_With Fixed Object	(68)	
(41)	Tree (≤ 10 cm in diameter)	(,	the modern (openly).
(42)	Tree (> 10 cm in diameter)	(69)	Unknown fixed object
(43)	Shrubbery or bush	()	
(44)	Embankment	Collisio	n with Nonfixed Object
			Passenger car, light truck, van, or other vehicle
(45)	Breakaway pole or post (any diameter)	( /	not in-transport
` '	, , , , , , , , , , , , , , , , , , , ,	(71)	
Nonbre	akaway Pole or Post	(76)	Animal
(50)	Pole or post (≤ 10 cm in diameter) Pole or post (> 10 cm but ≤ 30 cm in diameter) Pole or post (> 30 cm in diameter)	775	Train
(51)	Pole or post (> 10 cm but ≤ 30 cm in diameter)		Trailer, disconnected in transport
(52)	Pole or post (> 30 cm in diameter)	(79)	Object fell from vehicle in-transport
(53)	Pole or post (diameter unknown)	(88)	Other nonfixed object (specify):
		(/	- mar manusa - asjout (apadiny).
(54)	Concrete traffic barrier	(89)	Unknown nonfixed object
(55)	Impact attenuator	(/	
	Other traffic barrier (includes guardrail) (specify):	(98)	Other event (specify):
		(99)	Unknown event or object

OVERRIDE/UNDERRIDE (THIS VEHICLE)	ACCIDENT RECONSTRUCTION PROGRAMS
51. Front Override/Underride (this Vehicle)	HIGHEST DELTA V
52. Rear Override/Underride (this Vehicle) (0) No override/underride, or not an end-to-end impact between two CDS applicable vehicles, and no medium/heavy truck or bus underride	58. Basis for Total (Resultant) Delta V (highest)  (00) No vehicle inspection
Override (see specific CDC) [Between 2 CDS applicable vehicles (Bodytype, GV07=1-49)] (1) 1st CDC (2) 2nd CDC (3) Other not automated CDC (specify):	Delta V Calculated (01) Reconstruction program -damage only routine (02) Reconstruction program -damage and trajectory routine (03) Missing vehicle algorithm
Underride (see specific CDC) [Between 2 CDS applicable vehicles (Bodytype, GV07=1-49)] (4) 1st CDC (5) 2nd CDC (6) Other not automated CDC (specify):	Delta V Not Calculated  (04) At least one vehicle (which may be this vehicle) is beyond the scope of an acceptable reconstruction program, regardless of collision conditions.
<ul> <li>(7) Medium/heavy truck or bus override (of any configuration)</li> <li>(9) Unknown</li> <li>HEADING ANGLE AT IMPACT FOR HIGHEST DELTA V</li> </ul>	All vehicles within scope (CDC applicable) of reconstuction program but one of the collision conditions is beyond the scope of the reconstruction program or other acceptable reconstruction technique, regardless of adequacy of damage data.
Values: (000)-(359) Code actual value (997) Noncollision (998) Impact with object (999) Unknown  53. Heading Angle For This Vehicle  54. Heading Angle For Other Vehicle	<ul> <li>(05) Rollover</li> <li>(06) Other non-horizontal forces</li> <li>(07) Sideswipe type damage</li> <li>(08) Severe override</li> <li>(09) Yielding object</li> <li>(10) Overlapping damage</li> </ul>
RECONSTRUCTION DATA  55.Towed Trailing Unit (0) No towed unit	(11) All vehicle and collision conditions are within scope of one of the acceptable reconstruction programs, but there is insufficient data available,
(1) Yes—towed trailing unit (9) Unknown  66. Documentation of Trajectory Data for This Vehicle (0) No (1) Yes	(98) Other, (specify):
67. Post Collision Condition of Tree or Pole (For Highest Delta V) (0) Not collision (for highest delta V) with tree or pole (1) Not damaged (2) Cracked/sheared (3) Tilted <45 degrees (4) Tilted ≥45 degrees (5) Uprooted tree (6) Separated pole from base (7) Pole replaced (8) Other (specify):	

COMPUTER GENERA	<u></u>
59. Total Delta V	Highest  63. Impact Speed  Nearest kmph (highest)  Nearest kmph (secondary)  (NOTE: 000 means less than 0.5 kmph) (160) 159.5 kmph and above (998) Trajectory algorithm not run (999) Unknown
Nearest kmph (secondary)  (NOTE:000 means greater than -0.5 kmph and less than +0.5 kmph) (±160) ±159.5 kmph and above (999) Unknown  Highest  61. Lateral Component of Delta V	64. Confidence in Reconstruction Program Results (For Highest Delta V) (0) No reconstruction (1) Collision fits model — results appear reasonable (2) Collision fits model — results appear high (3) Collision fits model — results appear low (4) Borderline reconstruction — results appear reasonable
/Ø・4/_ Nearest kmph (highest)	OTHER SPEED ESTIMATE
Nearest kmph (secondary)  (NOTE:000 means greater than -0.5 kmph and less than +0.5 kmph)  (±160) ±159.5 kmph and above (_999) Unknown  62. Energy Absorption	Highest  Speed  ——————————————————————————————————

IS MISSING VEHICLE ALGORITHM APPLICABLE FOR THIS VEHICLE? [] YES [] NO

IF YES: IS A COMPLETED PROGRAM SUMMARY INCLUDED? [] YES [] NO

## ESTIMATED DELTA V **VEHICLE INSPECTION** 66. Estimated Highest Delta V (Researcher 67. Type of Vehicle Inspection Determined) (0) No inspection (0) Reconstruction Delta V coded (1) Vehicle fully repaired-no damage evident (2) Partial inspection (specify): Estimated Delta V (1) Less than 10 kmph (3) Complete inspection (2) ≥ 10 kmph but < 25 kmph (3) ≥ 25 kmph but < 40 kmph (4) ≥ 40 kmph but < 55 kmph (5) ≥ 55 kmph Other estimates of damage severity (6) Minor (7) Moderate (8) Severe (9) Unknown

\*\*\* IF THE CDS APPLICABLE VEHICLE WAS NOT INSPECTED (I.E., GV67=0), \*\*\*

DO NOT COMPLETE THE EXTERIOR AND INTERIOR VEHICLE FORMS

\*\*\* IF GV07 DOES NOT EQUAL 01-49, DO NOT COMPLETE \*\*\*

THE EXTERIOR VEHICLE, INTERIOR VEHICLE,

OCCUPANT ASSESSMENT, AND OCCUPANT INJURY FORMS.

# **EXTERIOR VEHICLE FORM**

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

1. Prim	ary Samp	ling Unit Nu	mber			3. Vehicle Number							
2. Case	Number	- Stratum	DSI	-95-5P	\$13							<del></del>	
				VEHICL	EIDEN	TIFICA	TION						
VIN <u>2</u>	<u>B</u> 7	<u>H</u> B	23	T 6	DK	, _ <del></del> _	<u>x</u> _x		<u>r_ r</u>	_ Model	Year_C	93	
VIN <u>2 B 7 H B 2 3 T 6 D K X X X X X Model Year 8 3</u> Vehicle Make (specify): <u>DODGE</u> Vehicle Model (specify): <u>Ram Van</u>													
					LOCAT	OR							
Locate th	e end of t	he damage r side impa	with respec	t to the vehi	cle longi	tudinal c	enter lin	e or bun	nper cori	ner for e	nd impa	cts or an	
Specific Impact No. Location of Direct Damage				Location of Field L				Location of Max Crush					
01 Fue			L FRONTAL			FULL FRONTAL				CL			
				SH PROF									
NOTES:	identify the	e plane at v abel adjusti	vhich the C-r	measureme	nts are ta	aken (e.g	g., at bur	nper, ab	ove bum	per, at s	ill, abov	e sill,	
etc.) and label adjustments (e.g., free space).													
	Measure (	C1 to C6 fro	m driver to p	oassenger s	ide in fro	nt or rea	r impact	s and re	ar to fror	nt in side	impacts	<b>3</b> .	
Free space value is defined as the distance between the baseline and the original body contour taken at the individual C locations. This may include the following: bumper lead, bumper taper, side protrusion, side taper,													
i (	individual ( etc. Reco	C locations. rd the value	. This may ir e for each C-	nclude the fo -measureme	ollowing: ent and n	bumper naximun	lead, bu	ımper ta	per, side	protrusi	on, side	taper,	
								ofilo					
Use as many lines/columns as necessary to des				T									
Impact Number		of Impact urements	Width	Max	Field	C,	C <sub>2</sub>	C <sub>3</sub>	C,	C <sub>5</sub>	C <sub>6</sub>	±D	
d/	<del> </del>		(CDC) 140	Crush	124	113		-/	124	100	1001	1.22	
Ψ/	B .	Kumper.		181	V3Ø	43	59	76	139	15/	181	<i>+23.</i> 5	
<del></del>		SUSTINEN TRNT		127	<del> </del>	54	54		54	<i>54 97</i>	54		
	LESS 7			4		4	<i>φ</i>	22 4	<i>85</i>	<i>d</i>	4	+23.5	
	RESUL			12.3		ø	5-	22	35	97		+23.5	
						Ψ_	-	×25	03		10-13	200	
	· · · · · · · · · · · · · · · · · · ·												
		1	1					l i				1 1	

### ORIGINAL SPECIFICATIONS WORK SHEET

Wheelbase	<u> </u>	x 2.54 =	324 cm
Overall Length	<u> 196.9</u> inches	x 2.54 =	<u>500</u> cm
Maximum Width	$\cancel{\cancel{\phi}}$ 7 9 .9 inches	x 2.54 =	<u>2, ø 3</u> cm
Curb Weight	$\phi 3,473$ pounds	x .4536 =	<u> </u>
Average Track	<i>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</i>	x 2.54 =	<i>N/A</i> _cm
Front Overhang	$\cancel{\phi}$ 3.8.3 inches	x 2.54 =	<u> 472</u> cm
Rear Overhang	$\cancel{\cancel{\phi}}\cancel{\cancel{\psi}}\cancel{\cancel{\phi}}\cancel{\cancel{g}}$ inches	x 2.54 =	cm
Undeformed End Width	<u> </u>	x 2.54 =	<u> 187</u> cm
Engine Size: cyl./displ.	52 Ø Ø 00	x .001 = \	<u>5.2</u> L
	317 cid	x .0164 =	<u>5.2</u> L

	VEHICLE DAMAGE SKETCH	
TIRE—WHEEL DAMAGE  3. Rotation physically b. Tire restricted deflated  RF   RF   LF   LF   RR   LR   LR   LR	ORIGINAL SPECIFICATIONS  Wheelbase 324 cm Overall Length 566 cm Maximum Width 243 cm Curb Weight 1575 kg Average Track 419 cm	WHEEL STEER ANGLES (For locked front wheels or displaced rear axles only)  RF (1) (2) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4
TYPE OF TRANSMISSION  Manual Automatic	Front Overhang 72 cm Rear Overhang 164 cm	DRIVE WHEELS
END SHIFT ≥ 10 CM  ☑ Yes □ No	Undeformed End Width 187 cm Engine Size: cyl./displ. 5.2 L	Approximate Cargo Weight UNK kg
	MEASUREMENTS IN CENTIMETERS	
N. K. K. K. K. K. K. K. K. K. K. K. K. K.		N/A Bumper corner 104 Stringline
MAX CRUSH	Bumper corner N/A 256 Stringline 104	Bumper corner  40 Stringline

NOTES: Sketch new perimeter and cross hatch direct damage and single hatch induced damage on all views. Annotate observations which might be useful in reconstructing the accident (e.g., grass in tire bead, direction of striations, scuff on sidewalls, etc.). If pulling trailer, sketch type of trailer and damage received on the back of this page.

Annotate any damage caused by extrication such as component removal by torching, prying, or hydraulic shears.

# CDC WORKSHEET

			CDC	WORKS					
			CODES FOR	R OBJECT C	ONT	ACTED			
(01-30)	— Vehicle Nu	ımber			(57)	Fence			
					(58)	Wall			
Noncoll				(	(59)	Building			
(31)	Overturn — r	rollover (excludes	end-over-end			Ditch or			
	Rollover-en				(61)				
	Fire or explos	sion			(62)	Fire hyd	drant		
	Jackknife		<u> </u>		(63)				
(35)	Other intraun	it damage (specif	<b>y</b> ):			Bridge			
(26)	Managellinian I	• •		'	(68)	Other fi	xed object (s	pecify):	
(36)	Noncollision i Other noncoll	injury llision (specify):		(	(69)	Unknow	vn fixed objec	et .	
(39)	Noncollision -	— details unknow	/n	Co	llisioı	n with No	nfixed Object	t	
									r other vehicle
	n With Fixed OI			•		not in-tr	ansport	<b></b> ,, -	r outor rotage
(41)	Tree (≤ 10 cm	n in diameter)		(	71)		/heavy truck	or bus not in	-transport
(42)	Tree (> 10 cm	n in diameter)		Ć	72)	Pedestr	ian		au.iopc.t
	Shrubbery or	bush		(	73)	Cyclist o	or cycle		
(44)	Embankment	<b>:</b>					onmotorist or	conveyance	
(45)	Breakaway po	ole or post (any di	ameter)	(	75)	Vehicle	occupant		······································
A 1 A		<b>_</b> .		(	76)	Animal			
	akaway Pole or		- ·			Train			
(5U)	Pole or post (	≤ 10 cm in diame	ter)				disconnected		
		> 10 cm but ≤ 30		•			ell from vehic		ort
		> 30 cm in diamet diameter unknowi		(1	88)	Other no	onfixed object	t (specify):	
	• •		лу	(1	89)	Unknow	n nonfixed ob	oject	
(55)	Concrete traffi Impact attenua			(!	98)	Other ev	ent (specify):		
(56)	Other traffic ba	arrier (includes gu			•				
	(Specify)			(3	<i>19)</i>	Unknow	n event or ob	ject	
		DEFORM/	ATION CLASS	SIFICATION	RY F	VENT N	IMRER		
				<i></i>	<b>-</b>	(4)	(5)		
Accident		(1) (2)				pecific	Specific	(6)	
Event	Ohiost	Direction	Incremental	(3)		ngitudinal	Vertical or	Type of	(7)
Sequence Number	Object Contacted	of Force	Value of	Deformation		Lateral	Lateral	Damage	Deformation
/ A	·	(degrees)	Shift	Location	L	ocation	Location	Distribution	Extent
<u> </u>	<u> </u>	010	60	E		D	E	<u>W</u>	<u>Ø 7</u>
<i>d</i> 2	< 4	260	Ø Ø	j		$\mathcal{P}$	1_	١٨J	di l
<del></del>		<u> </u>	<del></del>	<del></del>		<del>'</del> >	<u>—</u>	<del></del>	<u> </u>
<u>Ø 3</u>	5 7					9	9	7	99
M 11	7 7				-	L L	<u> </u>	<u> </u>	14 14
7-4	. <u> </u>					1		<u> </u>	<u> </u>
					-	<del></del>			
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					-	<del></del>	<del></del>		<del></del>
			<del></del>		-				
					_				

		COLLISION	DEFORMA	ATION CLAS	SSIFICATIO	N	
HIGHEST	DELTA "V"						
Accident Event Sequence Number	Object Contacted	(1) (2) Direction of Force	(3) Deformation Location	(4) Longitudinal or Lateral Location	(5) Vertical or Lateral Location	(6) Type of Damage Distribution	(7) Deformation Extent
4. Ø 1	5. <u>Ø</u> _/_	6. 7. 2	7. <u>F</u>	8. <u>D</u>	9 <u>.E</u>	10. <u>W</u>	11. <u>\$\psi\$</u> 7
Second Hig	ghest Delta "V"						
12. <u>\$\phi\$\tag{2}\$</u>	13. <u>5 4</u>	14. Ø9	15	16. <u>P</u>	17. <u>L</u>	18. <u>W</u>	19. <u>Ø /</u>
		CRUS	H PROFILE	IN CENTIM	ETERS		
	The crush proin the appr	ofile for the dan ropriate space b	mage described i pelow. (ALL ME	in the CDC(s) ai ASUREMENTS	bove should be ARE IN CENTI	documented	
HIGHEST D	DELTA "V"						
20. L	21. 			C4	_C <sub>5</sub>	C <sub>6</sub>	22. ±D
187	000	<u> </u>	422 q	185 ø	97 1:	<u> 33</u> €	) 124
Second Higl	hest Delta "V"						
23. 	24. 	C <sub>2</sub>		C <sub>4</sub>	C <sub>5</sub> C	<u>2</u> .	25. ±D
		<del></del>	<del></del>			+	
(Coded v impact is C (250) 2 (998) N (999) U 27 Direct Da (For high C (250) 2	med End Width when highest seve s an end plane im Code to the neare 250 centimeters of No highest severif Unknown amage Width nest severity impa ode to theneares 250 centimeters of Unknown	mpact.) rest centimeter or more rity end plane imp act) st centimeter	187 pact	29. Original A ————————————————————————————————————	Code to the neared centimeter  550 centimeters of Jinknown  7. 6 inches X 2.5  Average Track Woode to the neared centimeter  85 centimeters of Jinknown	or more 54 = <u>3 2 4 c</u> Vidth est	799

Abraded (scraped)

Unknown

Other damage (specify):\_\_

Filler neck separation from the fuel tank

\*\*\* STOP: IF THE CDS APPLICABLE VEHICLE WAS NOT TOWED \*\*\*

(GV10=0)

(99) Unknown fuel type

DO NOT COMPLETE THE INTERIOR VEHICLE FORM.

AMPLING SYSTEM <u>ss data system</u>

9. RR 9

National Highway Traffic Safety Administration	NIERIOR VE	HICLE FORM NATION	DNAL ACCIDENT SAMPLING S CRASHWORTHINESS DATA S
<ol> <li>Primary Sampling Unit Number</li> <li>Case Number - Stratum</li> <li>Vehicle Number</li> </ol> INTEGRITY	 - <u>95-Sp-ф13</u> _ф_	GLAZ  Type of Window/Windshield G  15. WS	lazing 9_18. LR <u>9</u> _19. RR <u>9</u>
4. Passenger Compartment Integrity (00) No integrity loss  Yes, Integrity Was Lost Through (01) Windshield (02) Door (side) (03) Door/hatch (back door) (04) Roof (05) Roof glass (06) Side window (07) Rear window (backlight) (08) Roof and roof glass (09) Windshield and door (side) (10) Windshield and roof (11) Side and rear window (side window and backlight) (12) Windshield and side window (13) Door and side window (98) Other combination of above (specify):	<u>9</u> 8	(1) AS-1 — Laminated (2) AS-2 — Tempered (3) AS-3 — Tempered-tinted (or (4) AS-2 — Tempered-with after (5) AS-3 — Tempered-tinted (wi (6) AS-14 — Glass/Plastic (7) Glazing removed prior to acci (8) Other (specify):  (9) Unknown  Window Precrash Glazing State 23. WS	market tint th additional after market tint) ident  tus  2 26. LR  27. RR  her 2

Door, Tailgate or Hatch Opening

5. LF 3 6. RF 2 7. LR Ø 8. RR / 9. TG/H / (0) No door/gate/hatch

- (1) Door/gate/hatch remained closed and operational (2) Door/gate/hatch came open during collision
- (3) Door/gate/hatch jammed shut
- (8) Other (specify):
- (9) Unknown

Damage/Failure Associated with Door, Tailgate or Hatch Opening in Collision. If IV05-IV09 ≠ 2, Then code Ø

10. LF <u>4</u> 11. RF <u>9</u> 12. LR <u>4</u> 13. RR <u>4</u> 14. TG/H <u>4</u>

(0) No door/gate/hatch or door not opened

Door, Tailgate or Hatch Came Open During Collision

- (1) Door operational (no damage)
- (2) Latch/striker failure due to damage
- (3) Hinge failure due to damage
- (4) Door structure failure due to damage
- (5) Door support (i.e., pillar, sill, roof side rail, etc.) failure due to damage
- (6) Latch/striker and hinge failure due to damage
- (8) Other failure (specify):
- (9) Unknown

Glazing Damage from Impact Forces

31. WS 9 32. LF 9 33. RF 9 34. LR 9 35. RR 9

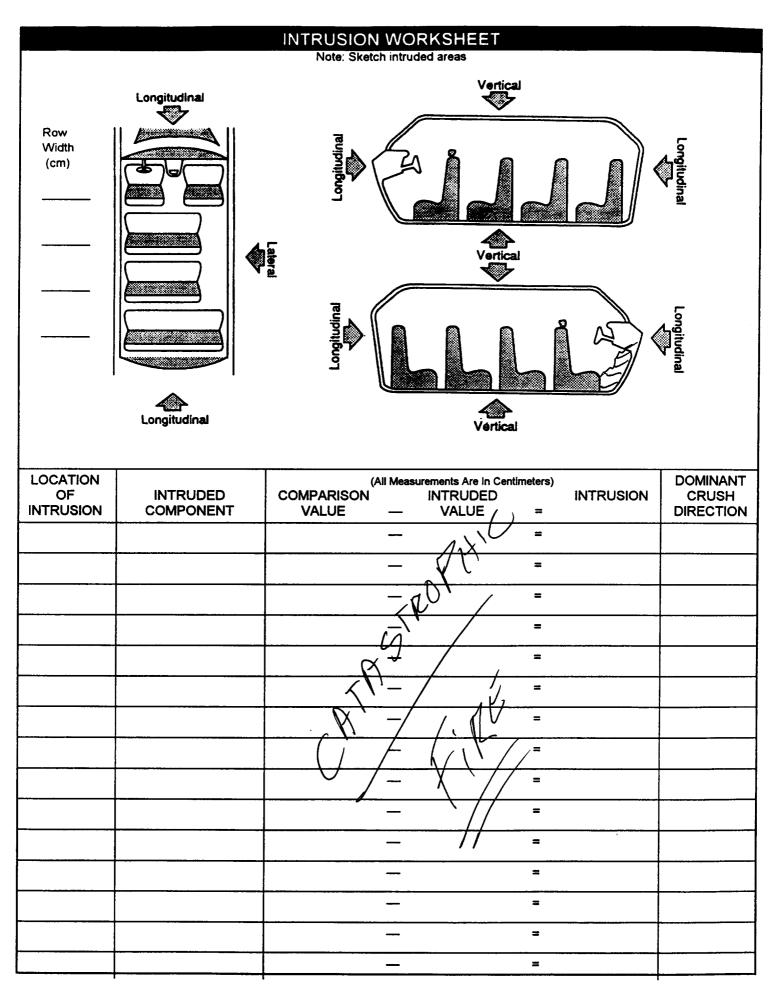
36. BL 9 37. Roof 4 38. Other 9

- (0) No glazing
- (1) No glazing damage from impact forces
- (2) Glazing in place and cracked from impact forces
- (3) Glazing in place and holed from impact forces
- (4) Glazing out-of-place (cracked or not) and not holed from impact forces
- (5) Glazing out-of-place and holed from impact forces
- (6) Glazing disintegrated from impact forces
- (7) Glazing removed prior to accident
- (9) Unknown if damaged

**Glazing Damage from Occupant Contact** 

39. WS 9 40. LF 9 41. RF 9 42. LR 9 43. RR 9 44. BL  $\frac{9}{4}$  45. Roof  $\frac{\cancel{\phi}}{4}$  46. Other  $\frac{9}{4}$ 

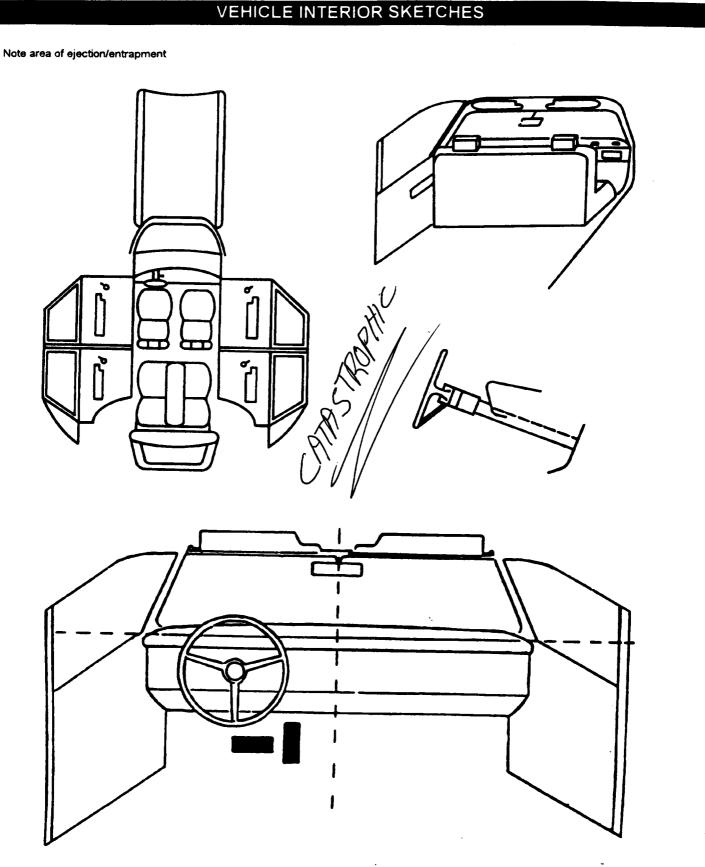
- (0) No glazing
- (1) No occupant contact to glazing
- (2) Glazing contacted by occupant but no glazing damage
- (3) Glazing in place and cracked by occupant contact
- (4) Glazing in place and holed by occupant contact
- (5) Glazing out-of-place (cracked or not) by occupant contact and not holed by occupant contact
- (6) Glazing out-of-place by occupant contact and holed by occupant contact
- Glazing removed prior to accident
- (8) Glazing disintegrated by occupant contact
- (9) Unknown if contacted by occupant



#### OCCUPANT AREA INTRUSION Note: If no intrusions, leave variables IV47-IV86 blank. INTRUDING COMPONENT Interior Components Dominant (01) Steering assembly Location of intruding Magnitude Crush Intrusion Component of intrusion Direction. (02) Instrument panel left (03) Instrument panel center (04) Instrument panel right 1st 47.\_\_\_\_ 48.\_\_\_ 49.\_\_\_ 50.\_\_\_ (05) Toe pan (06) A (A1/A2)-pillar (07) B-pillar (08) C-pillar 2nd 51.\_\_\_\_ 52.\_\_\_ 53.\_\_\_ 54.\_\_ (09) D-pillar (10) Side panel - forward of the A1/A2-pillar (11) Door panel (side) (12) Side panel - rear of the B-pillar 3rd 55.\_\_\_\_ 56.\_\_\_ 57.\_\_\_ 58.\_\_\_ (13) Roof (or convertible top) (14) Roof side rail (15) Windshield (16) Windshield header 4th 59.\_\_\_\_ 60.\_\_\_ 61.\_\_ 62.\_ (17) Window frame (18) Floor pan (includes sill) (19) Backlight header (20) Front seat back 5th 63.\_\_\_\_ 64.\_\_\_ 65.\_\_\_ 66.\_ (21) Second seat back (22) Third seat back (23) Fourth seat back (24) Fifth seat back 6th 67. 68. 69. 70. (25) Seat cushion (26) Back door/panel (e.g., tailgate) (27) Other interior component (specify): 7th 71. 72. 73. 74. Exterior Components (30) Hood (31) Outside surface of this vehicle (specify): 75.\_\_\_\_ 76.\_\_\_ 77.\_\_\_ 78.\_\_\_ 8th (32) Other exterior object in the environment (specify): 79.\_\_\_\_ 80.\_\_\_ 81.\_\_\_ (33) Unknown exterior object 9th 82. (97) Catastrophic (98) Intrusion of unlisted component(s) (specify): 10th 83.\_\_\_\_ 84. 85. 86. (99) Unknown LOCATION OF INTRUSION MAGNITUDE OF INTRUSION (1) ≥ 3 centimeters but < 8 centimeters Front Seat **Fourth Seat** (2) ≥ 8 centimeters but < 15 centimeters (11) Left (41) Left (3) ≥ 15 centimeters but < 30 centimeters (12) Middle (42) Middle (4) ≥ 30 centimeters but < 46 centimeters (13) Right (43) Right (5) ≥ 46 centimeters but < 61 centimeters (6) ≥ 61 centimeters Second Seat (97) Catastrophic (7) Catastrophic (21) Left (98) Other enclosed (9) Unknown (22) Middle area (specify) (23) Right (99) Unknown DOMINANT CRUSH DIRECTION Third Seat (1) Vertical (31) Left (2) Longitudinal (32) Middle (3) Lateral (33) Right (7) Catastrophic (9) Unknown

ST	EERING	RIM/SPOKE DEF	ORMATIC	ON	
		Measurements Are in Centime			
COMPARISON VALUE	_	DAMAGE VALUE	=	DEFORMATION	
UNK	<b>—</b>	UNK	=	YNK,	
		$\phi$	=		
I	<del>-</del>		=		
		·	=		

		age .
STEERING COLUMN	INSTRUMENT PANEL	
87. Steering Column Type (1) Fixed column (2) Tilt column (3) Telescoping column (4) Tilt and telescoping column (8) Other column type (specify): (9) Unknown	92. Odometer Reading kilometers Code to the nearest 1,000 kilometers (000) No odometer (001) Less than 1,500 kilometers (500) 499,500 kilometers or more (999) Unknown miles X 1 6093 = kilometers	000 eters
88. Tilt Steering Column Adjustment (0) No tilt steering column (1) Full up (2) Between full up and center (3) Center (4) Between center and full down (5) Full down (9) Unknown	93. Instrument Panel Damage from Occupant Contact? (0) No (1) Yes (9) Unknown  94. Type of Knee Bolster Covering (0) No knee bolster	1_
89. Telescoping Steering Column Adjustment (0) No telescoping steering column (1) Full back (2) Between full back and midpoint (3) Midpoint (4) Between midpoint and full forward (5) Full forward (9) Unknown	(1) Padded (2) Rigid plastic (8) Other (specify): (9) Unknown  95. Knee Bolsters Deformed from Occupant Contact? (0) No knee bolster (1) No deformation (2) Yes - deformation	<u>d</u> _
90. Steering Rim/Spoke Deformation  Code actual measured deformation to the nearest centimeter (00) No steering rim deformation (01-14) Actual measured value in centimeters (15) 15 centimeters or more (98) Observed deformation cannot be measured (99) Unknown	(9) Unknown  96. Did Glove Compartment Door Open During Collision(s)? (0) No glove compartment door (1) No - door did not open (2) Yes - door opened (9) Unknown	7
91. Location of Steering Rim/Spoke Deformation (00) No steering rim deformation  Quarter Sections (01) Section A (02) Section B (03) Section C (04) Section D  Half Sections (05) Upper half of rim/spoke (06) Lower half of rim/spoke (07) Left half of rim/spoke (08) Right half of rim/spoke (09) Complete steering wheel collapse (10) Undetermined location (99) Unknown	97. Adaptive (Assistive) Driving Equipment (0) No adaptive driving equipment (1) Adaptive driving equipment installed (Check all that apply.) [] Hand controls for braking/acceleration [] Steering control devices (attached to OEM steering wheel [] Steering knob attached to steering wheel [] Low effort power steering (unit or device) [] Replacement steering wheel (i.e., reduced diameter) [] Joy-stick steering controls [] Wheelchair tie-downs [] Modification to seat belts (specify): [] Additional or relocated switches (specify): [] Raised roof [] Wall-mounted head rest (used behind wheelchair) [] Other adaptive device (specify):	9



Sketch windshield contact(s) and the damaged area(s) on the instrument panel outline (e.g., radio, glove compartment, damage to instrument panel structure.

Cross hatch contact points, draw spider webs or use other annotation as may be appropriate.

Annotate the contacted area with a letter (begin with A) and list on the Points of Occupant Contact page.

		P	NIO	ITS OF OC	CUPA	NT CONTACT			
Contact	Interior Component Contacted	Occupa No. I Know	f	Body Region If Known		Supporting Physical	Eviden		Confidenc Level of Contact Point
A	Contacted	1(1104)		KIIOWII	l <u> </u>	Supporting Physical	LVIGETIC	<u>,e</u>	Point
В									<del> </del>
								<u> </u>	<del> </del>
<u>D</u>									
E					L	<u>/</u>			
F									
G									
Н									
ı									
J						· · · · · · · · · · · · · · · · · · ·			
K									
L		<del></del>		/					
		<del></del>	$\mathcal{A}$			······································			
N	<u> </u>								<u></u>
(006) Steering w of codes 0 (007) Steering control of codes 0 (007) Steering control of codes 0 (007) Steering control of codes 0 (008) Cellular tel (009) Add on equipapedeck, (010) Left instrument with the code of the header, A (instrument steering as only) Windshield more of the header, A (instrument steering as only) Windshield more of the header, A (instrument (passenge) (017) Windshield more of the header, A (instrument (passenge) (017) Windshield on the code of the header, A (instrument (passenge) (017) Windshield on the code of the header, A (instrument (passenge) (017) Windshield on the code of the header, A (instrument (passenge) (017) Windshield on the code of the code of the header, A (instrument (passenge) (017) Windshield on the code of th	theel rim theel hub/spoke theel (combination theel	(052) Li (053) Li (054) Li (055) C (056) Li (057) Li (058) Li (059) Li (059) Li (106) C (106) C (106) C (106) C (106) C (107) Ri (108) Ri (109) Ri	eff side  xcluding  rmrests  eff side  eff A (A (A eff B-pil  ther leff  eff side  eff	hardware or armrest 1/A2)-pillar lar t pillar (specify): window glass window frame window sill window glass one or more of the frame, window sill, p-pillar, B-pillar, or rail. side object  a interior surface, hardware or hardware or hardware or hardware or window glass window glass window glass window sill window sill window glass one or more of the frame, window sill, p-pillar, B-pillar, or rail. ht side object	(152) (153) (154) (155) (160) (161) (162) (163) AIR B. (170) (175) (180) (185) (190) (195) ROOF (201) (202) (203) (204) (205)	Seat, back support Belt restraint webbing/buckle Belt restraint B-pillar or door frame attachment point Other restraint system component (specify):  Head restraint system Other occupants (specify): Interior loose objects Child safety seat (specify):  Other interior object (specify):  AG Air bag-driver side Air bag compartment cover-driver side Air bag-passenger side Other air bag compartment cover-passenger side Other air bag compartment cover (specify)  Front header Rear header Roof left side rail Roof or convertible top R Floor (including toe pan) Floor or console mounted transmission lever, including	(402) (403) (405) (406) (407) (408) (409) (410) (411)	door, etc. Other rear objective (ASSISTIVE (ASSISTIVE) MENT Hand controls braking/accele steering control (attached to Ol wheel)	ge rack, ect (specify):  (E) DRIVING for ration of devices EM steering attached to steering wheel itameter) ing controls downs seat belts, elocated cify):  mead rest (used hair)
		_				console Parking brake handle Foot controls including parking brake		IDENCE LEVEL ACT POINT Certain Probable Possible Unknown	OF

		M	ANUAL RESTR	AINTS		
NOTES	S Encode the applicable data for e systems should be assessed du	ach seat	position in the vehicle.	. The attribute for	or the variable	may be found below. Restrair
	If a Child safety seat is present,	-			Jupunt Land	onione i onin,
	If the vehicle has automatic restr			. •	so hack of the	nrovious nago
	Tritle venicle has automatic resu	alinus avan	Left	Cent	····	
			Len	Cen	(er	Right
_	Availability	$\bot$				
F	Evidence of usage					
Ŕ	Used in this crash?					
S	Proper Use					
T	Failure Modes					
. <u> </u>	Anchorage Adjustment		<u> </u>			
	Availability		1[[	//		
9	Evidence of usage		11/			
OZOOE0	Used in this crash?	1	' P/ '	X :/-		
S	Proper Use	+	<del>\\\\</del>	<del>/                                    </del>		<del> </del>
Z	Failure Modes	+	<del>\\\\</del>	<del>/                                      </del>		1
Ď			<del></del>			<del>                                     </del>
	Anchorage Adjustment	+	<del>////</del>	1 V	/	
	Availability		/_\\	//		
0	Evidence of usage					
Ţ	Used in this crash?			\		
H	Proper Use	<u></u>		`		
E R	Failure Modes	T				
· -	Anchorage Adjustment					
• • • • • • •		••				
Manua	I (Active) Belt System Availability	Proper U	lse of Manual (Active) Be	its 5	houider Heit u	pper Anchorage
	Mona available					
(0) (1)	None available Belt removed/destroyed	(0) (1)	None used or not availab Belt used properly		Adjustment	
(0) (1) (2)	Beit removed/destroyed Shoulder beit	(0)	None used or not availab	ole	Adjustment (0) No si (1) No u	houlder belt pper anchorage adjustment for
(0) (1) (2) (3)	Beit removed/destroyed Shoulder beit Lap beit	(0) (1) (2)	None used or not availab Belt used properly Belt used properly with c	ole	Adjustment (0) No si (1) No u	t houlder belt
(0) (1) (2) (3) (4)	Beit removed/destroyed Shoulder beit Lap beit Lap and shoulder beit	(0) (1) (2) Belt (	None used or not availab Belt used property	ble bild safety seat	Adjustment (0) No si (1) No u shou	houlder belt pper anchorage adjustment for lder belt
(0) (1) (2) (3) (4) (5)	Beit removed/destroyed Shoulder beit Lap beit Lap and shoulder beit Beit available - type unknown	(0) (1) (2) Belt (3) (4)	None used or not available Belt used properly Belt used properly with coursed Improperly Shoulder belt worn under Shoulder belt worn behing	ole child safety seat or arm nd back or seat	Adjustment (0) No si (1) No u shou	houlder belt pper anchorage adjustment for lder belt stable shoulder Belt Upper porage
(0) (1) (2) (3) (4) (5)	Belt removed/destroyed Shoulder belt Lap belt Lap and shoulder belt Belt available - type unknown graf Belt Partially Destroyed	(0) (1) (2) Belt (3) (4) (5)	None used or not available Belt used properly Belt used properly with curved Improperly Shoulder belt worn under Shoulder belt worn behindelt worn around more the	child safety seat or arm and back or seat than one person	Adjustment (0) No si (1) No u shou  Adjus  Anch (2) In ful	houlder belt pper anchorage adjustment for lder belt stable shoulder Belt Upper norage I up position
(0) (1) (2) (3) (4) (5) Integ	Belt removed/destroyed Shoulder belt Lap belt Lap and shoulder belt Belt available - type unknown gral Belt Partially Destroyed Shoulder belt (lap belt	(0) (1) (2) Belt (3) (4) (5) (6)	None used or not available Belt used properly Belt used properly with curved Improperly Shoulder belt worn under Shoulder belt worn behind Belt worn around more than belt worn on abdome	child safety seat  r arm  nd back or seat  han one person en	Adjustment (0) No si (1) No uj shou  Adjust Anch (2) In ful (3) In mi	houlder belt pper anchorage adjustment for Ider belt stable shoulder Belt Upper porage I up position d position
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(0) (1) (2) (3) (4) (5) Integ (6)	Belt removed/destroyed Shoulder belt Lap belt Lap and shoulder belt Belt available - type unknown  gral Belt Partially Destroyed Shoulder belt (lap belt destroyed/removed) Lap belt (shoulder belt destroyed/removed)	(0) (1) (2) Belt (3) (4) (5) (6) (7)	None used or not available Belt used properly Belt used properly with curved Improperly Shoulder belt worn under Shoulder belt worn behind Belt worn around more that belt worn on abdome Lap belt or lap and should improperly with child safe (specify):	r arm nd back or seat han one person en lder beit used ety seat	Adjustment (0) No si (1) No uj shou  Adjus Anch (2) In full (3) In mi (4) In full (5) Posit (9) Unkn	houlder belt pper anchorage adjustment for ider belt stable shoulder Belt Upper porage I up position d position I down position ion unknown pown if position has adjustable
(0) (1) (2) (3) (4) (5) Integ (6)	Beit removed/destroyed Shoulder beit Lap beit Lap and shoulder beit Beit available - type unknown  gral Beit Partially Destroyed Shoulder beit (lap beit destroyed/removed) Lap beit (shoulder beit	(0) (1) (2) Belt (3) (4) (5) (6)	None used or not available Belt used properly Belt used properly with curved Improperly Shoulder belt worn under Shoulder belt worn behind Belt worn around more that belt worn on abdome Lap belt or lap and should improperly with child safe (specify):  Other improper use of means a should be the safe (specify):	r arm nd back or seat han one person en lder beit used ety seat	Adjustment (0) No si (1) No uj shou  Adjus Anch (2) In full (3) In mi (4) In full (5) Posit (9) Unkn	houlder belt pper anchorage adjustment for ider belt stable shoulder Belt Upper sorage I up position d position I down position ion unknown
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(0) (1) (2) (3) (4) (5) <i>Integ</i> (6) (7) (8) (9)	Beit removed/destroyed Shoulder beit Lap beit Lap and shoulder beit Beit available - type unknown  gral Beit Partially Destroyed Shoulder beit (lap beit destroyed/removed) Lap beit (shoulder beit destroyed/removed) Other beit (specify):  Unknown  I (Active) Beit System Use	(0) (1) (2) Belt (3) (4) (5) (6) (7)	None used or not available Belt used properly Belt used properly with curved Improperly Shoulder belt worn under Shoulder belt worn behind Belt worn around more that Lap belt worn on abdome Lap belt or lap and should improperly with child safe (specify):  Other improper use of many system (specify):	r arm nd back or seat han one person en lder beit used ety seat	Adjustment (0) No si (1) No uj shou  Adjus Anch (2) In full (3) In mi (4) In full (5) Posit (9) Unkn	houlder belt pper anchorage adjustment for ider belt stable shoulder Belt Upper porage I up position d position I down position ion unknown pown if position has adjustable
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(0) (1) (2) (3) (4) (5) <i>Integ</i> (6) (7) (8) (9)	Beit removed/destroyed Shoulder beit Lap beit Lap and shoulder beit Beit available - type unknown  gral Beit Partially Destroyed Shoulder beit (lap beit destroyed/removed) Lap beit (shoulder beit destroyed/removed) Other beit (specify):  Unknown  I (Active) Beit System Use	(0) (1) (2) Belt (3) (4) (5) (6) (7) (8)	None used or not available Belt used properly Belt used properly with country Shoulder belt worn under Shoulder belt worn behind Belt worn around more the Lap belt worn on abdome Lap belt or lap and should improperly with child safe (specify):  Other improper use of many system (specify): Unknown  Active) Belt Failure Model	child safety seat  r arm  nd back or seat  nan one person  en  ider belt used  ety seat  anual belt	Adjustment (0) No si (1) No uj shou  Adjus Anch (2) In full (3) In mi (4) In full (5) Posit (9) Unkn	houlder belt pper anchorage adjustment for ider belt stable shoulder Belt Upper porage I up position d position I down position ion unknown pown if position has adjustable
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(0) (1) (2) (3) (4) (5) (6) (7) (8) (9) Manua (00) (01)	Belt removed/destroyed Shoulder belt Lap belt Lap and shoulder belt Belt available - type unknown  gral Belt Partially Destroyed Shoulder belt (lap belt destroyed/removed) Lap belt (shoulder belt destroyed/removed) Other belt (specify):  Unknown  I (Active) Belt System Use None used, not available, or belt removed/destroyed Inoperable (specify):  Shoulder belt	(0) (1) (2) Belt (3) (4) (5) (6) (7) (8) (9) Manual (Accident (0) (1)	None used or not available Belt used properly Belt used properly with country Shoulder belt worn under Shoulder belt worn behind Belt worn around more the Lap belt or lap and should improperly with child safe (specify):  Other improper use of many system (specify):  Unknown  Active) Belt Failure Model No manual belt used or no No manual belt failure(s)	child safety seat r arm nd back or seat nan one person en lder belt used ety seat anual belt es During not available	Adjustment (0) No si (1) No uj shou  Adjus Anch (2) In full (3) In mi (4) In full (5) Posit (9) Unkn	houlder belt pper anchorage adjustment for ider belt stable shoulder Belt Upper porage I up position d position I down position ion unknown pown if position has adjustable
(0) (1) (2) (3) (4) (5) (6) (7) (8) (9) Manua (00) (01)	Belt removed/destroyed Shoulder belt Lap belt Lap and shoulder belt Belt available - type unknown  gral Belt Partially Destroyed Shoulder belt (lap belt destroyed/removed) Lap belt (shoulder belt destroyed/removed) Other belt (specify):  Unknown  Il (Active) Belt System Use None used, not available, or belt removed/destroyed Inoperable (specify):  Shoulder belt Lap belt	(0) (1) (2)  Belt (3) (4) (5) (6) (7)  (8)  Manual (Accident (0)	None used or not available Belt used properly Belt used properly with coursel Improperly Shoulder belt worn under Shoulder belt worn behind Belt worn around more the Lap belt or lap and should improperly with child safe (specify):  Other improper use of may system (specify):  Unknown  Active) Belt Failure Model No manual belt used or no manual belt failure(s) Torn webbing (stretched)	child safety seat r arm nd back or seat nan one person en lder belt used ety seat anual belt es During not available	Adjustment (0) No si (1) No uj shou  Adjus Anch (2) In full (3) In mi (4) In full (5) Posit (9) Unkn	houlder belt pper anchorage adjustment for ider belt stable shoulder Belt Upper porage I up position d position I down position ion unknown pown if position has adjustable
(0) (1) (2) (3) (4) (5) (6) (7) (8) (9) Manua (00) (01) (02) (03) (04) (05)	Belt removed/destroyed Shoulder belt Lap belt Lap and shoulder belt Belt available - type unknown  gral Belt Partially Destroyed Shoulder belt (lap belt destroyed/removed) Lap belt (shoulder belt destroyed/removed) Other belt (specify):  Unknown  Il (Active) Belt System Use None used, not available, or belt removed/destroyed Inoperable (specify):  Shoulder belt Lap belt Lap and shoulder belt Belt used - type unknown	(0) (1) (2) Belt (3) (4) (5) (6) (7) (8) (9) Manual (Accident (0) (1)	None used or not available Belt used properly Belt used properly with country Shoulder belt worn under Shoulder belt worn behind Belt worn around more the Lap belt worn on abdome Lap belt or lap and shoul improperly with child safe (specify):  Other improper use of maystem (specify):  Unknown  Active) Belt Failure Model No manual belt used or no manual belt failure(s) Torn webbing (stretched included) Broken buckle or latchplater.	child safety seat r arm nd back or seat han one person en ider belt used ety seat anual belt es During not available webbing not	Adjustment (0) No si (1) No uj shou  Adjus Anch (2) In full (3) In mi (4) In full (5) Posit (9) Unkn	houlder belt pper anchorage adjustment for ider belt stable shoulder Belt Upper porage I up position d position I down position ion unknown pown if position has adjustable
(0) (1) (2) (3) (4) (5) (6) (7) (8) (9) (9) Manua (00) (01) (02) (03) (04)	Belt removed/destroyed Shoulder belt Lap belt Lap and shoulder belt Belt available - type unknown  gral Belt Partially Destroyed Shoulder belt (lap belt destroyed/removed) Lap belt (shoulder belt destroyed/removed) Other belt (specify):  Unknown  I (Active) Belt System Use None used, not available, or belt removed/destroyed inoperable (specify):  Shoulder belt Lap belt Lap and shoulder belt	(0) (1) (2) Belt (3) (3) (4) (5) (6) (7) (8) (9) Manual (4) Accident (0) (1) (2) (3) (4)	None used or not available Belt used properly Belt used properly with country Shoulder belt worn under Shoulder belt worn behind Belt worn around more the Lap belt or lap and shoul improperly with child safe (specify):  Other improper use of maystem (specify):  Unknown  Active) Belt Failure Mode No manual belt used or no no manual belt failure(s) Torn webbing (stretched included)  Broken buckle or latchplat Upper anchorage separa	child safety seat  r arm  nd back or seat  han one person  en  ider belt used  ety seat  anual belt  es During  not available  webbing not  ate  ate	Adjustment (0) No si (1) No uj shou  Adjus Anch (2) In full (3) In mi (4) In full (5) Posit (9) Unkn	houlder belt pper anchorage adjustment for ider belt stable shoulder Belt Upper porage I up position d position I down position ion unknown pown if position has adjustable
(0) (1) (2) (3) (4) (5) (6) (7) (8) (9) <b>Manua</b> (00) (01) (02) (03) (04) (05) (08)	Beit removed/destroyed Shoulder beit Lap beit Lap and shoulder beit Beit available - type unknown  gral Beit Partially Destroyed Shoulder beit (lap beit destroyed/removed) Lap beit (shoulder beit destroyed/removed) Other beit (specify):  Unknown  I (Active) Beit System Use None used, not available, or beit removed/destroyed Inoperable (specify):  Shoulder beit Lap beit Lap and shoulder beit Beit used - type unknown Other beit used (specify):	(0) (1) (2)  Belt (3) (4) (5) (6) (7)  (8)  Manual (4) Accident (0) (1) (2) (3)	None used or not available Belt used properly Belt used properly with country Shoulder belt worn under Shoulder belt worn behind Belt worn around more the Lap belt or lap and shoul improperly with child safe (specify):  Other improper use of maystem (specify):  Unknown  Active) Belt Failure Mode No manual belt used or no No manual belt failure(s) Torn webbing (stretched included) Broken buckle or latchplat Upper anchorage separations.	child safety seat  r arm  nd back or seat  han one person  en  ider belt used  ety seat  anual belt  es During  not available  webbing not  ate  ate	Adjustment (0) No si (1) No uj shou  Adjus Anch (2) In full (3) In mi (4) In full (5) Posit (9) Unkn	houlder belt pper anchorage adjustment for ider belt stable shoulder Belt Upper porage I up position d position I down position ion unknown pown if position has adjustable
(0) (1) (2) (3) (4) (5) (6) (7) (8) (9) Manua (00) (01) (02) (03) (04) (05)	Belt removed/destroyed Shoulder belt Lap belt Lap and shoulder belt Belt available - type unknown  gral Belt Partially Destroyed Shoulder belt (lap belt destroyed/removed) Lap belt (shoulder belt destroyed/removed) Other belt (specify):  Unknown  Il (Active) Belt System Use None used, not available, or belt removed/destroyed Inoperable (specify):  Shoulder belt Lap belt Lap and shoulder belt Belt used - type unknown	(0) (1) (2) Belt (3) (3) (4) (5) (6) (7) (8) (9) Manual (4) Accident (0) (1) (2) (3) (4)	None used or not available Belt used properly Belt used properly with country Shoulder belt worn under Shoulder belt worn behind Belt worn around more the Lap belt or lap and shoul improperly with child safe (specify):  Other improper use of maystem (specify):  Unknown  Active) Belt Failure Mode No manual belt used or no no manual belt failure(s) Torn webbing (stretched included)  Broken buckle or latchplat Upper anchorage separa	child safety seat  r arm  nd back or seat  han one person  en  ider belt used  ety seat  anual belt  es During  not available  webbing not  ate  ate	Adjustment (0) No si (1) No uj shou  Adjus Anch (2) In full (3) In mi (4) In full (5) Posit (9) Unkn	houlder belt pper anchorage adjustment for ider belt stable shoulder Belt Upper porage I up position d position I down position ion unknown pown if position has adjustable
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(0) (1) (2) (3) (4) (5) (6) (7) (8) (9) Manua (00) (01) (02) (03) (04) (05) (08) (12) (13) (14)	Belt removed/destroyed Shoulder belt Lap belt Lap and shoulder belt Belt available - type unknown  gral Belt Partially Destroyed Shoulder belt (lap belt destroyed/removed) Lap belt (shoulder belt destroyed/removed) Other belt (specify):  Unknown  If (Active) Belt System Use None used, not available, or belt removed/destroyed Inoperable (specify):  Shoulder belt Lap and shoulder belt Belt used - type unknown Other belt used (specify):  Shoulder belt used with child safety seat Lap belt used with child safety seat Lap and shoulder belt used with child safety seat Belt used with child safety seat - type .	(0) (1) (2)  Belt (3) (4) (5) (6) (7)  Manual (4) Accident (0) (1) (2) (3) (4) (5) (6) (7)	None used or not available Belt used properly Belt used properly with country Shoulder belt worn under Shoulder belt worn behind Belt worn around more the Lap belt or lap and should improperly with child safe (specify):  Other improper use of may system (specify):  Unknown  Active) Belt Failure Model No manual belt used or no manual belt failure(s) Torn webbing (stretched included)  Broken buckle or latchplat upper anchorage separat (specify):  Broken retractor Combination of above (specify):	child safety seat child safety seat child safety seat chan one person chan one	Adjustment (0) No si (1) No uj shou  Adjus Anch (2) In full (3) In mi (4) In full (5) Posit (9) Unkn	houlder belt pper anchorage adjustment for ider belt stable shoulder Belt Upper porage I up position d position I down position ion unknown pown if position has adjustable

### **AUTOMATIC RESTRAINTS**

NOTES: Encode the data for each applicable front seat position. The attribute for the variables may be found below. Restraint systems should be assessed during the vehicle inspection then coded on the Occupant Assessment Form.

#### **AIR BAGS**

		Left Front	Right Front	Other
F -	Availability/Function	1/	1-/	4
R c	Deployment	Φ	1)	P
) T	Failure			

#### Air Bag System Availability/Function

- (0) Not equipped/not available
- (1) Air bag

Non-functional

- (2) Air bag disconnected (specify):
- (3) Air bag not reinstalled
- (9) Unknown

#### Are There Indications of Air Bag System Failure? (This Occupant Position)

- (0) Not equipped/not available
- (1) No
- (2) Yes (specify):
- (9) Unknown

### Frontal Air Bag System Deployment (This Occupant Position)

- (0) Not equipped/not available
- Deployed during accident (as a result of impact)
- (2) Deployed inadvertently just prior to accident
- (3) Deployed, accident sequence undetermined
- (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical)
- (5) Unknown if deployed
- (7) Nondeployed
- (9) Unknown

#### Air Bag(s) Deployment, <u>Other</u> Than First Seat Frontal (This Occupant Position)

- (0) Not equipped with an \*other\* air bag
- (1) Deployed during accident (as a result of impact)
- (2) Deployed inadvertently just prior to accident
- (3) Deployed, details unknown
- (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical)
- (5) Unknown if deployed
- (7) Nondeployed
- (9) Unknown

#### **AUTOMATIC BELTS**

		Left	Right
	Availability/Function		. /
F	Use		
Ŕ	Туре	1)	$\varphi$
S T	Proper Use	· ·	
	Failure Modes		

### Automatic (Passive) Belt System Availability/Function

- (0) Not equipped/not available
- (1) 2 point automatic belts
- (2) 3 point automatic belts
- (3) Automatic belts type unknown

#### Non-functional

- (4) Automatic belts destroyed or rendered inoperative
- (9) Unknown

#### Automatic (Passive) Belt System Use

- (0) Not equipped/not available/destroyed or rendered inoperative
- (1) Automatic belt in use
- (2) Automatic belt not in use (manually disconnected, motorized track inoperative)
- (3) Automatic belt use unknown
- (9) Unknown

#### Automatic (Passive) Belt System Type

- (0) Not equipped/not available
- (1) Non-motorized system
- (2) Motorized system
- (9) Unknown

### Proper Use of Automatic (Passive) Belt System

- (0) Not equipped/not available/not used
- (1) Automatic belt used properly
- (2) Automatic belt used properly with child safety seat

#### Automatic Belt Used Improperty

- (3) Automatic shoulder belt worn under arm
- (4) Automatic shoulder belt worn behind back
- (5) Automatic belt worn around more than one person
- (6) Lap portion of automatic belt worn on abdomen
- (7) Automatic lap and shoulder belt or

automatic shoulder belt used improperty with child safety seat (specify):

- (8) Other improper use of automatic belt system (specify):
- (9) Unknown

#### Automatic (Passive) Belt Failure Modes During Accident

- (0) Not equipped/not available/not in use
- (1) No automatic belt failure(s)
- (2) Torn webbing (stretched webbing not included)
- (3) Broken buckle or latchplate
- (4) Upper anchorage separated
- (5) Other anchorage separated (specify):
- (6) Broken retractor
- (7) Combination of above (specify):
- (8) Other automatic belt failure (specify):
- (9) Unknown

#### FIRST SEAT FRONTAL AIR BAGS

NOTES: Encode the applicable data for the driver and first seat passenger in the vehicle. The attribute for the variable may be found below. Restraint systems should be assessed during the vehicle inspection then coded on the Occupant Assessment Form.

	Driver	Passenger
Type of air bag?		
Flaps open at tear points?		
Flaps damaged?		,
Air bag damaged?	<u> </u>	
Source of air bag damage	Ψ	$\cup$
Air bag tethered?	,	
Air bag have vent ports?		
Other occupant contact air bag?		
Occupant wearing eyewear?	7	

#### Type of Air Bag

- (0) Not equipped/not available
- (1) Original manufacturer installed system
- (2) Retrofitted air bag
- (3) Replacement air bag
- (8) Unknown type of air bag
- (9) Unknown

### Did Air Bag Module Cover Flap(s) Open At Designated Tear Points?

- (0) Not equipped/not available
- (1) No
- (2) Yes
- (3) Deployed, unknown if flap(s) opened at designated tear points
- (7) Not deployed
- (8) Unknown if deployed
- (9) Unknown

### Were Air Bag Module Cover Flap(s) Damaged?

- (0) Not equipped/not available
- (1) No
- (2) Yes (specify):
- (3) Deployed, unknown if air bag module cover flap(s) damaged
- (7) Not deployed
- (8) Unknown if deployed
- (9) Unknown

#### Was There Damage To The Air Bag?

- (00) Not equipped/not available
- (01) Not damaged

#### Yes - Air Bag Damage

- (02) Ruptured
- (03) Cut
- (04) Torn
- (05) Holed
- (06) Burned
- (07) Abraded
- (88) Other damage (specify):
- (95) Damaged, details unknown
- (96) Deployed, unknown if damaged
- (97) Not deployed
- (98) Unknown if deployed
- (99) Unknown

#### Source of Air Bag Damage

- (00) Not equipped/not available
- (01) Not damaged
- (02) Object worn by occupant, (specify):
- (03) Object carried by occupant, (specify):
- (04) Adaptive/assistive controls, (specify):
- (05) Fire in vehicle
- (06) Thermal burns
- (07) Rescue or emergency efforts
- (88) Other damage source (specify):
- (95) Damaged, unknown source
- (96) Deployed, unknown if damaged
- (97) Not deployed
- (98) Unknown if deployed
- (99) Unknown

#### Was The Air Bag Tethered?

- (0) Not equipped/not available
- (1) No
- (2) Yes (specify number of tether straps):
- 3) Deployed, unknown if tethered
- (7) Not deployed
- (8) Unknown if deployed
- (9) Unknown

#### Did The Air Bag Have Vent Ports?

- (0) Not equipped/not available
- (1) No
- (2) Yes (specify number of vent ports):
- (3) Deployed, unknown if vent ports present
- (7) Not deployed
- (8) Unknown if deployed
- (9) Unknown

### Was the Air Bag in this Occupant's Position Contacted by Another Occupant?

- (0) Not equipped/not available
- (1) No
- (2) Yes (specify):
- (3) Deployed, unknown if other occupant contact to air bag
- (7) Not deployed
- (8) Unknown if deployed
- (9) Unknown

#### Was This Occupant Wearing Eye-wear?

- (0) Not equipped/not available
- (1) No
- (2) Eyeglasses/sunglasses
- (3) Contact lenses
- (4) Deployed, unknown if eyewear worn
- (7) Not deployed
- (8) Unknown if deployed
- (9) Unknown

### HEAD RESTRAINTS/SEAT EVALUATION

NOTES: Encode the applicable data for each seat position in the vehicle. The attribute for these variables may be found at the bottom of the page. Head restraint type/damage and seat type/performance should be assessed during the vehicle inspection then coded on the Occupant Assessment Form.

		Left	Center	Right
	Head Restraint Type/Damage			
F	Seat Type	-		
i R	Seat Performance			
S	Seat Orientation			
Т	Seat Track Position			
	Seat Back Incline Pre/Post Impact	.\(		
	Head Restraint Type/Damage	<i>\\</i> \		
s	Seat Type	1 M		
S E C	Seat Performance	111,	7	
0	Seat Orientation	\/\		
N D	Seat Track Position			
•	Seat Back Incline Pre/Post Impact	//	V.	
	Head Restraint Type/Damage		/1//	
т	Seat Type	7 /	///	
Ĥ	Seat Performance			
Ŕ	Seat Orientation			
D	Seat Track Position			
	Seat Back Incline Pre/Post Impact			
	Head Restraint Type/Damage			
<b>♀</b> [	Seat Type		7	
T H E R	Seat Performance			
E [	Seat Orientation			
[	Seat Track Position			
	Seat Back Incline Pre/Post Impact			

DESCRIBE ANY INDICATION OF ABNORMAL OCCUPANT POSTURE (I.E., UNUSUAL OCCUPANT CONTACT PATTERN)

#### HEAD RESTRAINTS/SEAT EVALUATION

#### Head Restraint Type/Damage by Occupant at This Occupant **Position**

- (0) No head restraints
- Integral -- no damage
- (2) Integral damaged during accident
- (3) Adjustable no damage(4) Adjustable damaged during accident
- (5) Add-on no damage(6) Add-on damaged during accident

Seat Type (this Occupant Position)

Bucket with folding back

Bench with separate back

Bench with folding back(s)

Split bench with folding back(s)

(06) Split bench with separate back

Pedestal (i.e., column

Other seat type (specify):

Box mounted seat (i.e., van

Occupant not seated or no seat

(8) Other Specify):

(00)

(01)

(02)

(03)

(04)

(08)

(09)

(10)

(99)

(9) Unknown

Bucket

Bench

cushions

cushions

supported)

type)

Unknown

#### Seat Performance (this Occupant Position)

- Occupant not seated or no seat
- No seat performance failure(s)
- Seat adjusters failed
- (3) Seat back folding locks or "seat back" failed (specify):
- Seat tracks/anchors failed
- Deformed by impact of occupant
- (6) Deformed by passenger compartment intrusion (specify):
- (7) Combination of above (specify):
- (8) Other (specify):
- (9) Unknown

### **Seat Orientation (this Occupant**

- Forward facing seat

- (8) Other (specify):
- (9) Unknown

## Position)

- (0) Occupant not seated or no seat
- Rear facing seat
- Side facing seat (inward)
- Side facing seat (outward)

#### Seat Track Adjusted Position Prior To Impact

- Occupant not seated or no seat
- (1) Non-adjustable seat track

#### Adjustable Seat Track

- (2) Seat at forward most track positi(3) Seat between forward most and Seat at forward most track position
- middle track positions
- Seat at middle track position
- (5) Seat between middle and rear most track positions
- Seat at rear most track position
- (9) Unknown

#### Seat Back Incline Prior and Post **Impact**

- (00)Occupant not seated or no seat
- Not adjustable (01)

#### Upright prior to impact

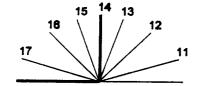
- Moved to completely rearward (11)position
- (12)Moved to rearward midrange position
- (13)Moved to slightly rearward position
- (14) Retained pre-impact position
- Moved to slightly forward position 15)
- (16)Moved to forward midrange position
- (17)Moved to completely forward
- position

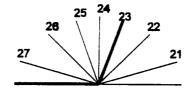
#### Slightly reclined prior to impact

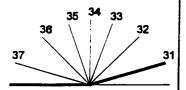
- Moved to completely rearward (21)position
- (22)Moved to rearward midrange position
- (23) (24) Retained pre-impact postion
- Moved to upright position
- (25) (26) Moved to slightly forward position
- Moved to forward midrange position
- (27)Moved to completely forward position

#### Completely reclined prior to impact

- Retained pre-impact position
- Moved to rearward midrange position
- (33)Moved to slightly rearward position
- (34) Moved to upright position
- 35) Moved to slightly forward position
- (36)Moved to forward midrange position
- (37)Moved to completely forward position
- Unknown (99)







Coding diagrams for Seat Back Incline Position Prior and Post Impact

	Y SEAT FIELD ASSESSMENT
When a child safety seat is present enter the occupant's number using the codes listed below.	ccupant's number in the first row and complete the column below the Complete a column for each child safety seat present.
Occupant Number	
Type of Child     Safety Seat	
2. Child Safety Seat Orientation	
3. Child Safety Seat Harness Usage	
4. Child Safety Seat Shield Usage	
5. Child Safety Seat Tether Usage	
6. Child Safety Seat Make/Model	Specify Below for Each Child Safety Seat
Type of Child Safety Seat	Child Safety Seat Harness Usage
(0) No child safety seat (1) Infant seat (2) Toddler seat (3) Convertible seat (4) Booster seat (7) Other type child safety seat (specify):	<ol> <li>Child Safety Seat Flariess Usage</li> <li>Child Safety Seat Shield Usage</li> <li>Child Safety Seat Tether Usage         <ul> <li>Note: Options Below Are Used for Variables 3-5.</li> <li>(00) No child safety seat</li> </ul> </li> </ol>
(8) Unknown child safety seat type (9) Unknown if child safety seat used  2. Child Safety Seat Orientation (00) No child safety seat	Not Designed with Harness/Shield/Tether (01) After market harness/shield/tether added, not used (02) After market harness/shield/tether used (03) Child safety seat used, but no after market
Designed for Rear Facing for This Age/Weight (01) Rear facing	harness/shield/tether added (09) Unknown if harness/shield/tether added or used
(02) Forward facing (08) Other orientation (specify):	Designed With Harness/Shield/Tether (11) Harness/shield/tether not used (12) Harness/shield/tether used
(09) Unknown orientation  Designed for Forward Facing for This Age/Weight (11) Rear facing (12) Forward facing (18) Other orientation (specify):	(19) Unknown if harness/shield/tether used Unknown If Designed With Harness/Shield/Tether (21) Harness/shield/tether not used (22) Harness/shield/tether used (29) Unknown if harness/shield/tether used (99) Unknown if child safety seat used
Unknown Design or Orientation For This Age/Weight, or Unknown Age/Weight (21) Rear facing (22) Forward facing	Child Safety Seat Make/Model     (Specify make/model and occupant number)
(28) Other orientation (specify):	
(29) Unknown orientation	
(99) Unknown if child safety seat used	

Constant of the state	EJECTION	N/ENTRAPI	MENT D	ATA			Page			
Complete the following if the resea vehicle. Code the appropriate data	on the Occupan	idication that a it Assessment	n occupani Form.	t was either e	ejected from	or entrapp	ed in			
EJECTION No [ Yes [ ] Describe indications of ejection and	Describe indications of ejection and body parts involved in partial ejection(s):									
Occupant Number							7			
Ejection										
(Note on Vehicle Interior Sketch) Ejection Area										
Ejection Medium										
Medium Status										
Ejection (1) Complete ejection (2) Partial ejection (3) Fiection Unknown degree	(7) Roof (8) Other pickup	r area (e.g., bac ıp, etc.) (specify	ck of y):	(8) Oth	tegral structur					
(3) Ejection, Unknown degree (9) Unknown	(9) Unkno			Medium	iknown Status (imm	nediately P	rior			
Ejection Area (1) Windshield (2) Left front (3) Right front (4) Left rear (5) Right rear	(2) Nonfix (3) Fixed (	/hatch/tailgate xed roof structu		to impac (1) Op (2) Clo	ct) pen psed egral structur	-				
(6) Rear  ENTRAPMENT No [ ] Yes [ ]										
Describe entrapment mechanism:	•									
							<u> </u>			
							-			
Component(s):							_			
(Note in vehicle interior diagram)							-			



National Highway Traffic Safety Administration	NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM
Primary Sampling Unit Number	OCCUPANT'S SEATING
2. Case Number - Stratum  DS/-95-SP-Ø/3  3. Vehicle Number  DS/-95-SP-Ø/3	10. Occupant's Seat Position  Front Seat  (11) Left side  (12) Middle
4. Occupant Number  OCCUPANT'S CHARACTERISTICS  5. Occupant's Age Code actual age at time of accident. (00) Less than one year old (specify by month):  (97) 97 years and older (99) Unknown	(13) Right side (14) Other (specify): (15) On or in the lap of another occupant  Second Seat (21) Left side (22) Middle (23) Right side (24) Other (specify): (25) On or in the lap of another occupant
6. Occupant's Sex (1) Male (2) Female-not reported pregnant (3) Female-pregnant-1st trimester(1st-3rd month) (4) Female-pregnant-2nd trimester(4th-6th month) (5) Female-pregnant-3rd trimester(7th-9th month) (6) Female-pregnant-term unknown (9) Unknown	Third Seat (31) Left side (32) Middle (33) Right side (34) Other (specify): (35) On or in the lap of another occupant  Fourth Seat (41) Left side (42) Middle
7. Occupant's Height Code actual height to the nearest centimeter. (999) Unknowninches X 2.54 =centimeters	(43) Right side (44) Other (specify): (45) On or in the lap of another occupant  (97) In or on unenclosed area (98) Other seat (specify): (99) Unknown
8. Occupant's Weight Code actual weight to the nearest kilogram. (999) Unknown	11. Occupant's Posture (0) Normal posture
pounds X .4536 =kilograms  9. Occupant's Role (1) Driver (2) Passenger (9) Unknown	Abnormal posture  (1) Kneeling or standing on seat  (2) Lying on or across seat  (3) Kneeling, standing or sitting in front of seat  (4) Sitting sideways or turned to talk with another occupant or to look out a rear window  (5) Sitting on a console  (6) Lying back in a reclined seat position  (7) Bracing with feet or hands on a surface in front of seat  (8) Other abnormal posture (specify):  (9) Unknown

	EJEC	TION/E	NTRAPMENT
(1) (2) (3)	ection ) No ejection ) Complete ejection ) Partial ejection ) Ejection, unknown degree ) Unknown	Φ	15. Medium Status (Immediately Prior To Impact)  (0) No ejection (1) Open (2) Closed (3) Integral structure (9) Unknown
(0) (1) (2) (3) (4) (5) (6) (7) (8)	ection Area ) No ejection ) Windshield ) Left front ) Right front ) Left rear ) Right rear ) Rear ) Roof ) Other area (e.g., back of pickup, etc.) (specify):	\$	16. Entrapment (0) Not entrapped/exit not inhibited (1) Entrapped/pinned - mechanically restrained (2) Could not exit vehicle due to jammed doors, fire, etc. (specify):  (9) Unknown  17. Occupant Mobility (0) Occupant fatal before removed from vehicle (1) Removed from vehicle while unconscious or
(0) (1) (2) (3) (4) (5) (8)	ection Medium  No ejection  Door/hatch/tailgate  Nonfixed roof structure  Fixed glazing Nonfixed glazing (specify):  Integral structure  Other medium (specify):  Unknown	<i>P</i>	disoriented (2) Removed from vehicle due to injuries (3) Exited vehicle with some assistance (4) Exited vehicle under own power (5) Occupant fully ejected (9) Unknown

	BELT SYS	EM	FUNCTION	
18.	Manual (Active) Belt System Availability (0) None available (1) Belt removed/destroyed	_ 22	Shoulder Belt Upper Anchorage Adjustment     (0) No shoulder belt     (1) No upper anchorage adjustment for shoulder be	9 elt
	<ul> <li>(2) Shoulder belt</li> <li>(3) Lap belt</li> <li>(4) Lap and shoulder belt</li> <li>(5) Belt available—type unknown</li> <li>Integral Belt Partially Destroyed</li> <li>(6) Shoulder belt (lap belt destroyed/removed)</li> <li>(7) Lap belt (shoulder belt destroyed/removed)</li> </ul>		Adjustable shoulder Belt Upper Anchorage (2) In full up position (3) In mid position (4) In full down position (5) Position unknown (9) Unknown if position has adjustable upper anchorage adjustment	
	(8) Other belt (specify): (9) Unknown	23	3. Automatic (Passive) Belt System Availability/	Ø
19.	Manual (Active) Belt System Use (00) None used, not available, or belt removed/destroyed (01) Inoperative (specify):	-	<ul> <li>(0) Not equipped/not available</li> <li>(1) 2 point automatic belts</li> <li>(2) 3 point automatic belts</li> <li>(3) Automatic belts - type unknown</li> </ul>	
	(02) Shoulder belt (03) Lap belt (04) Lap and shoulder belt (05) Belt used—type unknown	24	Non-functional (4) Automatic belts destroyed or rendered inoperative (9) Unknown  1. Automatic (Passive) Belt System Use	ø
	(08) Other belt used (specify):  (12) Shoulder belt used with child safety seat  (13) Lap belt used with child safety seat  (14) Lap and shoulder belt used with child safety seat		<ul> <li>(0) Not equipped/not available/destroyed or rendered inoperative</li> <li>(1) Automatic belt in use</li> <li>(2) Automatic belt not in use (manually disconnected, motorized track inoperative) (specify):</li> </ul>	<del>/</del>
	<ul> <li>(15) Belt used with child safety seat—type unknown</li> <li>(18) Other belt used with child safety seat (specify): <ul> <li>(99) Unknown if belt used</li> </ul> </li> </ul>	25	(3) Automátic belt use unknown (9) Unknown  5. Automatic (Passive) Belt System Type (0) Not equipped/not available	\$
20.	Proper Use of Manual (Active) Belts (0) None used or not available (1) Belt used properly	-   26	(1) Non-motorized system (2) Motorized system (9) Unknown 6. Proper Use of Automatic (Passive)	ø
	<ul> <li>(2) Belt used properly with child safety seat</li> <li>Belt Used Improperly</li> <li>(3) Shoulder belt worn under arm</li> <li>(4) Shoulder belt worn behind back or seat</li> <li>(5) Belt worn around more than one person</li> </ul>		Belt System (0) Not equipped/not available/not used (1) Automatic belt used properly (2) Automatic belt used properly with child safety seat	7-
	<ul> <li>(6) Lap belt worn on abdomen</li> <li>(7) Lap belt or lap and shoulder belt used improperly with child safety seat (specify):</li> </ul>		Automatic Belt Used Improperly (3) Automatic shoulder belt worn under arm (4) Automatic shoulder belt worn behind back (5) Automatic belt worn around more than one person	
	(8) Other improper use of manual belt system (specify):		(6) Lap portion of automatic belt worn on abdomen (7) Automatic lap and shoulder belt or	
21.	(9) Unknown  Manual (Active) Belt Failure Modes	_	automatic shoulder belt used improperly with child safety seat (specify):	
	During Accident (0) No manual belt used or not available (1) No manual belt failure(s) (2) Torn webbing (stretched webbing not included)		(8) Other improper use of automatic belt system (specify):(9) Unknown	1
	(3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (specify):	27	7. Automatic (Passive) Belt Failure Modes During Accident (0) Not equipped/not available/not in use (1) No automatic belt failure(s)	<u>P</u>
	(6) Broken retractor (7) Combination of above (specify):		<ul><li>(2) Torn webbing (stretched webbing not included)</li><li>(3) Broken buckle or latchplate</li><li>(4) Upper anchorage separated</li></ul>	
	(8) Other manual belt failure (specify):		(5) Other anchorage separated (specify):	
	(9) Unknown		<ul><li>(6) Broken retractor</li><li>(7) Combination of above (specify):</li><li>(8) Other automatic belt failure (specify):</li></ul>	
		-	(9) Unknown	

POLICE REPORTED RESTRAINT USE	AIR BAG SYSTEM FUNCTION
28. Police Reported Belt Use  (0) None used (1) Police did not indicate belt use (2) Shoulder belt (3) Lap belt 4 (4) Lap and shoulder belt (5) Belt used, type not specified (6) Child safety seat (7) Automatic belt (8) Other type belt, (specify):	30. Frontal Air Bag System Availability/Function (This Occupant Position) (0) Not equipped/not available (1) Air bag  Non-functional (2) Air bag disconnected (specify):  (3) Air bag not reinstalled (9) Unknown
(9) Police indicated "unknown"  29. Police Reported Air Bag Availability/Function (0) No air bag available (1) Police did not indicate air bag availability/function (2) Deployed (3) Not deployed (4) Unknown if deployed (9) Police indicated "unknown"	<ul> <li>31. Frontal Air Bag System Deployment (This Occupant Position) (0) Not equipped/not available (1) Deployed during accident (as a result of impact) (2) Deployed inadvertently just prior to accident (3) Deployed, details unknown (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (5) Unknown if deployed (7) Nondeployed (9) Unknown</li> </ul>
Check the Primary Source Used In Determining Belt Use.  [ ] Not equipped/not available/destroyed or rendered inoperative [ ] Vehicle inspection [ ] Official injury data [ ] Driver/occupant interview [ ] Other (specify):	32. Other Than First Seat Frontal Air Bag Availability/Function (This Occupant Position) (0) Not equipped/not available (1) Air bag  Non-functional (2) Air bag disconnected (specify):  (3) Air bag not reinstalled (9) Unknown Specify type of "other" air bag present:  33. Air Bag(s) Deployment, Other Than First Seat Frontal (This Occupant Position) (0) Not equipped with an "other" air bag
	<ul> <li>(0) Not equipped with an other air bag</li> <li>(1) Deployed during accident (as a result of impact)</li> <li>(2) Deployed inadvertently just prior to accident</li> <li>(3) Deployed, details unknown</li> <li>(4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical)</li> <li>(5) Unknown if deployed</li> <li>(7) Nondeployed</li> <li>(9) Unknown</li> <li>34. Are There Indications of Air Bag System Failure?  (This Occupant Position)</li> <li>(0) Not equipped/not available</li> <li>(1) No</li> <li>(2) Yes (specify):</li> <li>(9) Unknown</li> </ul>

	FIRST SEAT FRONTAL AIR	BAG SYSTEM EVALUATION
35.	Had Vehicle Been in Previous Accident(s)?  (0) Not equipped/not available (1) No previous accidents  Yes (2) Previous accident(s) without deployment(s) (3) One previous accident with deployment (4) More than one previous accident with at least one deployment (8) Previous accidents, unknown deployment status	40. Longitudinal Component of Delta V For Air Bag Deployment Impact (-000) Not equipped/not available Code the value of the delta V for the impact that initiated the air bag deployment (-996) Deployment, unknown longitudinal Delta V (-997) Not deployed (-998) Unknown if deployed (-999) Unknown
36.	Type of Air Bag (0) Not equipped/not available (1) Original manufacturer installed system (2) Retrofitted air bag (3) Replacement air bag (8) Unknown type of air bag (9) Unknown	41. Did Air Bag Module Cover Flap(s) Open At Designated Tear Points? (0) Not equipped/not available (1) No (2) Yes (3) Deployed, unknown if flap(s) opened at designated tear points (7) Not deployed (8) Unknown if deployed (9) Unknown
37.	Had Any Prior Maintenance/Service Been Performed On This Air Bag System?  (0) Not equipped/not available (1) No prior maintenance (2) Yes, prior maintenance (specify):  (9) Unknown	42. Were Air Bag Module Cover Flap(s) Damaged?  (0) Not equipped/not available  (1) No  (2) Yes (specify):  (3) Deployed, unknown if air bag module cover flap(s) damaged  (7) Not deployed  (8) Unknown if deployed
38.	Air Bag Deployment Accident Event Sequence Number (00) Not equipped/not available Code the accident event sequence number that initiated the air bag deployment (96) Deployed, unknown event (97) Not deployed (98) Unknown if deployed (99) Unknown	(9) Unknown  43. Was There Damage To The Air Bag? (00) Not equipped/not available (01) Not damaged  Yes - Air Bag Damage (02) Ruptured (03) Cut (04) Torn
39.	CDC For Air Bag Deployment Impact (0) Not equipped/not available (1) Highest delta V (2) Second highest delta V (3) Other non-coded delta V (specify):  (6) Deployed, unknown event (7) Not deployed (8) Unknown if deployed (9) Unknown	(05) Holed (06) Burned (07) Abraded (88) Other damage (specify):  (95) Damaged, details unknown (96) Deployed, unknown if damaged (97) Not deployed (98) Unknown if deployed (99) Unknown

#### FIRST SEAT FRONTAL AIR BAG SYSTEM EVALUATION continued HEAD RESTRAINT AND SEAT EVALUATION 49. Head Restraint Type/Damage by Occupant 44. Source of Air Bag Damage at This Occupant Position (00) Not equipped/not available No head restraints (01) Not damaged (1) Integral—no damage (02) Object worn by occupant, (specify): Integral—damaged during accident (2) (3) Adjustable—no damage (03) Object carried by occupant, (specify): (4) Adjustable—damaged during accident (5) Add-on-no damage (04) Adaptive/assistive controls, (specify): (6) Add-on—damaged during accident (8) Other (specify): (05) Fire in vehicle (06) Thermal burns (9) Unknown (07) Rescue or emergency efforts (88) Other damage source (specify): 50. Seat Type (this Occupant Position) (00) Occupant not seated or no seat (95) Damaged, unknown source (01) Bucket (96) Deployed, unknown if damaged (02) Bucket with folding back (03) Bench (97) Not deployed (98) Unknown if deployed (04) Bench with separate back cushions (99) Unknown (05) Bench with folding back(s) (06) Split bench with separate back cushions (07) Split bench with folding back(s)(08) Pedestal (i.e., column supported) 45. Was The Air Bag Tethered? (0) Not equipped/not available (09) Box mounted seat (i.e., van type) (1) No (10) Other seat type (specify): (2) Yes (specify number of tether straps): (99) Unknown (3) Deployed, unknown if tethered (7) Not deployed 51. Seat Orientation (this Occupant Position) (8) Unknown if deployed (0) Occupant not seated or no seat (9) Unknown (1) Forward facing seat 46. Did The Air Bag Have Vent Ports? (2) Rear facing seat (0) Not equipped/not available (3) Side facing seat (inward) (1) No (4) Side facing seat (outward) (2) Yes (specify number of vent ports): (8) Other (specify): (3) Deployed, unknown if vent ports present (9) Unknown (7) Not deployed (8) Unknown if deployed 52. Seat Track Adjusted Position Prior To Impact (9) Unknown (0) Occupant not seated or no seat (1) Non-adjustable seat track 47. Was the Air Bag in this Occupant's Position **Contacted by Another Occupant?** Adjustable Seat Track (0) Not equipped/not available (2) Seat at forward most track position (1) No (3) Seat between forward most and middle track (2) Yes (specify): positions (4) Seat at middle track position (3) Deployed, unknown if other occupant contact to (5) Seat between middle and rear most track air bag positions (7) Not deployed (6) Seat at rear most track position (8) Unknown if deployed (9) Unknown (9) Unknown 48. Was This Occupant Wearing Eye-wear? (0) Not equipped/not available (1) No (2) Eyeglasses/sunglasses (3) Contact lenses (4) Deployed, unknown if eyewear worn (7) Not deployed (8) Unknown if deployed (9) Unknown

#### HEAD RESTRAINT AND SEAT EVALUATION continued

- 53. Seat Back Incline Prior and Post Impact
  - (00) Occupant not seated or no seat
  - (01) Not adjustable

#### Upright prior to impact

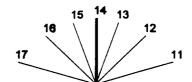
- (11) Moved to completely rearward position
- (12) Moved to rearward midrange position
- (13) Moved to slightly rearward position
- (14) Retained pre-impact position
- (15) Moved to slightly forward position
- (16) Moved to forward midrange position
- (17) Moved to completely forward position

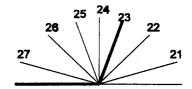
#### Slightly reclined prior to impact

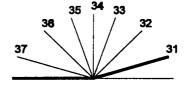
- (21) Moved to completely rearward position
- (22) Moved to rearward midrange position
- (23) Retained pre-impact position
- (24) Moved to upright position
- (25) Moved to slightly forward position
- (26) Moved to forward midrange position
- (27) Moved to completely forward position

#### Completely reclined prior to impact

- (31) Retained pre-impact position
- (32) Moved to rearward midrange position
- (33) Moved to slightly rearward position
- (34) Moved to upright position
- (35) Moved to slightly forward position
- (36) Moved to forward midrange position
- (37) Moved to completely forward position
- (99) Unknown
- 54. Seat Performance (this Occupant Position)
  - (0) Occupant not seated or no seat
  - (1) No seat performance failure(s)
  - (2) Seat adjusters failed
  - (3) Seat back folding locks or "seat back" failed (specify):\_\_\_\_\_
  - (4) Seat track/anchors failed
  - (5) Deformed by impact of occupant
  - (6) Deformed by passenger compartment intrusion, (specify):\_\_\_\_\_
  - (7) Combination of above (specify):
  - (8) Other (specify):
  - (9) Unknown







### CHILD SAFETY SEAT 55. Child Safety Seat Make/Model (000) No child safety seat Applicable codes are found in your NASS CDS Data Collection, Coding and Editing (950) Built-in child safety seat (997) Other make/model (specify): (998) Unknown make/model (999) Unknown if child safety seat used 56. Type of Child Safety Seat (0) No child safety seat (1) Infant seat (2) Toddler seat (3) Convertible seat (4) Booster seat - with shield (5) Booster seat - without shield (7) Other type child safety seat (specify): (8) Unknown child safety seat type (9) Unknown if child safety seat used 57. Child Safety Seat Orientation (00) No child safety seat Designed for Rear Facing for This Age/Weight (01) Rear facing (02) Forward facing (08) Other orientation (specify): (09) Unknown orientation Designed For Forward Facing for This Age/Weight (11) Rear facing (12) Forward facing (18) Other orientation (specify): (19) Unknown orientation Unknown Design or Orientation For This Age/Weight, or Unknown Age/Weight (21) Rear facing (22) Forward facing (28) Other orientation (specify): (29) Unknown orientation (99) Unknown if child safety seat used

- 58. Child Safety Seat Harness Usage
- 59. Child Safety Seat Shield Usage
- 60. Child Safety Seat Tether Usage

Note: Options below applicable to Variables OA58-OA60.

(00) No child safety seat

Not Designed With Harness/Shield/Tether

- (01) After market harness/shield/tether added, not used
- (02) After market harness/shield/tether used
- (03) Child safety seat used, but no after market harness/shield/tether added
- (09) Unknown if harness/shield/tether added or used

Designed With Harness/Shield/Tether

- (11) Harness/shield/tether not used
- (12) Harness/shield/tether used
- (19) Unknown if harness/shield/tether used

Unknown If Designed With Harness/Shield/Tether

- (21) Harness/shield/tether not used
- (22) Harness/shield/tether used
- (29) Unknown if harness/shield/tether used
- (99) Unknown if child safety seat used

INJURY CONSEQUENCES		
<ul> <li>61. Injury Severity (Police Rating)</li> <li>(0) O - No injury</li> <li>(1) C - Possible injury</li> <li>(2) B - Nonincapacitating injury</li> <li>(3) A - Incapacitating injury</li> <li>(4) K - Killed</li> <li>(5) U - Injury, severity unknown</li> <li>(6) Died prior to accident</li> <li>(9) Unknown</li> <li>62. Treatment - Mortality</li> <li>(0) No treatment</li> <li>(1) Fatal</li> <li>(2) Fatal - ruled disease (specify):</li> <li>Nonfatal</li> <li>(3) Hospitalization</li> <li>(4) Transported and released</li> <li>(5) Treatment at scene - nontransported</li> <li>(6) Treatment later</li> <li>(7) Treatment - other (specify):</li> <li>(8) Transported to a medical facility-unknown if treated</li> <li>(9) Unknown</li> </ul>	W W	63. Type Of Medical Facility (for Initial Treatment) (0) Not treated at a medical facility (1) Trauma center (2) Hospital (3) Medical clinic (4) Physician's office (5) Treatment later at medical facility (8) Other (specify): (9) Unknown  64. Hospital Stay (00) Not Hospitalized — Code the number of days (up through 60) that the occupant stayed in hospital. (61) 61 days or more (99) Unknown  65. Working Days Lost — Code the number of days (up through 60) that the occupant lost from work due to the accident (00) No working days lost (61) 61 days or more (62) Fatally injured (97) Not working prior to accident (99) Unknown
99. Case Occupant (0) Not the Case Occupant (1) This is the Case Occupant (2) This is the Case Occupant in another case.		

**STOP WORK HERE** 

**VARIABLES 66-74** 

TO BE CODED BY THE ZONE CENTER

### TO BE CODED BY THE ZONE CENTER

	INJURY CONSEQUENCES	TRAUMA DATA
	Time to Death  Code number of hours from time of accident to time of death up through 24 hours. If time of death is greater than 24 hours, code number of days. (Note: 1 day = 31, 2 days = 32, n days = 30 +n up through 30 days = 60)  (00) Not fatal  (96) Fatal - ruled disease  (99) Unknown	71. Glasgow Coma Scale (GCS) Score (at Medical Facility) (00) Not injured (01) Injured - not treated at medical facility (02) No GCS Score at medical facility (03-15) Code the actual value of the initial GCS Score recorded at medical facility. (97) Injured, details unknown (99) Unknown if injured
67.	1st Medically Reported Cause of Death	72. Was the Occupant Given Blood? (1) No - blood not given (2) Yes - blood given
	2nd Medically Reported Cause of Death $\phi$	(specify units):  (9) Unknown if blood given
	3rd Medically Reported Cause of Death Code the Occupant Injury from line number(s) for the medically reported injury(s) which reportedly contributed to this occupant's death (00) Not fatal or no additional causes (96) Mode of death given but specific injuries are not linked to cause of death. (specify):	73. Arterial Blood Gases (ABG) – HCO <sub>3</sub> (00) Not injured (01) Injured, ABGs not measured or reported (02-50) Code the actual value of the HCO <sub>3</sub> (96) ABGs reported, HCO <sub>3</sub> unknown (97) Injured, details unknown (99) Unknown if injured
	(97) Other result (includes fatal ruled disease) (specify):	BELT USE DETERMINATION
70.	Number of Recorded Injuries for This OccupantCode the actual number of injuries recorded for this occupant. (00) No recorded injuries (97) Injured, details unknown (99) Unknown if injured	74. Primary Source of Belt Use Determination (0) Not equipped/not available/destroyed or rendered inoperative (1) Vehicle inspection (2) Official injury data (3) Driver/occupant interview (8) Other (specify):

Administration

U.S. Department of Transportation

National Highway Traffic Safety

OCCUPANT INJURY FORM

BEST AVAILABLE

Form Approved O.M.B. No. 2127-00

NATIONAL ACCIDENT SAMPLING SYSTE CRASHWORTHINESS DATA SYSTE

1. Primary Sampling Unit Number

3. Vehicle Number

2. Case Number - Stratum

DS1-95-SP-013

4. Occupant Number

#### **INJURY DATA**

Record below the actual injuries sustained by this occupant that were identified from the official and unofficial data sources. Remember not to double count an injury just because it was identified from two different sources. If greater than ten injuries have been documented, encode the balance on the Occupant Injury Supplement.

		A.I.S 90							Injury	Occupant		
	Source of Injury Data	Body Region	Type of Anatomic Structure	Specific Anatomic Structure	Level of Injury	A.I.S. Severity	Aspect	Injury Source	Source Confidence Level	Direct/ Indirect Injury	Area Intrusion Number	ICD-9
†st	5. A	6 <u>. /</u>	7. <u>6</u>	• <u>Ø</u> 8	. <u>ØZ</u>	10. <u>Z</u>	11. <b>Ø</b> 12	<u> 497</u>	_ 13. <u>9</u>	14.7	15. <b><u>Ø</u></b> Ø	<b>350.</b> 5
2n <b>d</b>	16. Z	17. <u>9</u>	18	19. <u>9</u> 2	20. <u>Ø</u> Z	21.3	22. <u>D</u> 20	601	<u>24</u>	<sub>25.</sub> <u>3</u>	26. <u>Ø</u> Ø	9 <u>86</u>
3rd	27	28	29	30	31	32	3334		_ 35	36	37	
4th	38	39	40	41	42	43	4445	-	46	47	48	-
5th	49	50	51	52	53	54	55:56		57	58	59	
5 <b>th</b>	60	61	62	63	64	65	6667		68:	69	70	
7th	71	72	73	74	75	76	7778		79	80	81	
3th	82	83	84	85	86	87	8889		90	91	92	
<b>X</b> h	93	94	95	96	97	98	99:100	·	_ 101,	102	103	
oth	104	105	106	107	108	109	110111	·	_ 112	113	114	

#### OCCUPANT INJURY CLASSIFICATION

## **Body Region**

- Head
- Face
- Neck
- Thorax
- (2) (3) (4) (5) (6) Abdomen
- Spine
- **Upper Extremity** (7)
- (8) Lower Extremity
- Unspecified

#### **Type of Anatomic** Structure

- Whole Area
- Vessels
- **Nerves**
- (2) (3) (4) Organs (includes Muscles/ligaments)
- (5) Skeletal (includes ioints)
- Head LOC
- (9)Skin

#### Specific Anatomic Structure

Vessels, Nerves, Organs. Bones, Joints are assigned consecutive two digit numbers beginning with 02.

The exceptions to this rule apply to:

#### Whole Area

- (02) Skin Abrasion
- Skin Contusion (04)
- Skin Laceration (06)Skin - Avulsion
- (08) **Amputation**
- (10)
- (20)Burn
- (30) Crush (40) Degloving
- (50) Injury - NFS
- (90)Trauma, other than mechanical

#### Head - LOC

- (02) Length of LOC
- (04) Level
- (06)of
- (08) Consciousness
- (10) Concussion

#### **Spine**

- Cervical (02)
- (04)Thoracic
- (06)Lumbar

#### Level of Injury

Specific injuries are assigned consecutive two-digit numbers beginning with 02.

To the extent possible, within the organizational framework of the AIS, 00 is assigned to an injury NFS as to severity or where only one injury is given in the dictionary for that anatomic structure. 99 is assigned to any injury NFS as to lesion or severity.

#### **Abbreviated Injury Scale**

- Minor Injury
- Moderate Injury
- Serious Injury
- (2) (3) (4) (5) (6) Severe Injury
- Critical Injury Maximum
- (untreatable)
- Injured, unknown severity

#### **Aspect**

- Right Left
- (3)Bilateral
- (4) (5) (6) Central
- Anterior
- Posterior
- (7) Superior
- (8) Inferior
- (9) Unknown
- Whole region

#### SOURCE OF INJURY DATA

### **CONFIDENCE LEVEL**

**INJURY SOURCE** 

### OFFICIAL RECORDS

- (1) Autopsy records with or without hospital/medical records
- (2) Hospital/medical records other than emergency room (e.g., discharge summary)
- (3) Emergency room records only (including associated X-rays or other lab reports)
- (4) Private physician, walk-in or emergency clinic

#### **UNOFFICIAL RECORDS**

- (5) Lay coroner report
- (6) E.M.S. personnel
- (7) Interviewee
- (8) Other source (specify):
- (9) Police

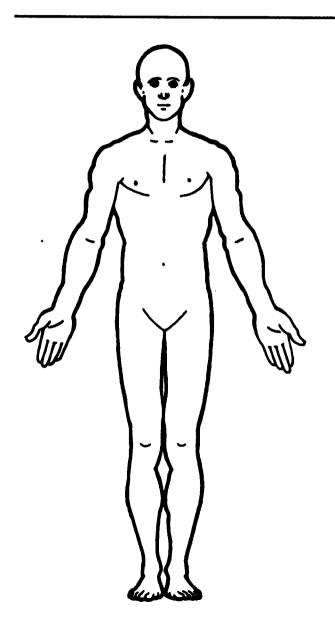
#### DIRECT/INDIRECT INJURY

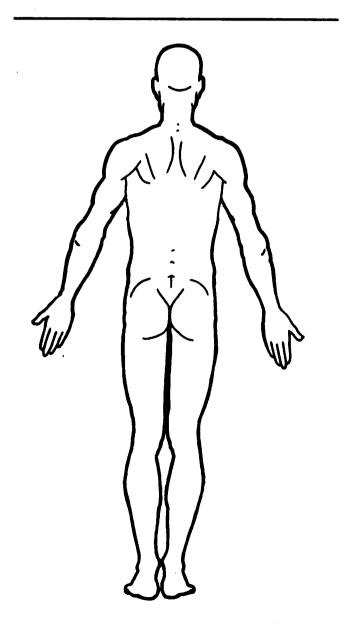
- (1) Certain
- (2) Probable
- (3) Possible
- (9) Unknown

- Direct contact injury Indirect contact injury
- Noncontact injury
- Injured, unknown source

			INJURY	3001	<del>1020</del>		
FRON	τ	(102)	Right side hardware or	(183)	Air bag-passenger side and	(411)	Wall mounted head rest (use
(001)	Windshield		armrest		object held		behind wheel chair)
(002)	Mirror	(103)	Right A (A1/A2)-pillar	(184)	Air bag-passenger side and	(412)	Other adaptive device
(003)	Sunvisor	(104)	Right B-pillar		object in mouth		(specify):
(004)	Steering wheel rim	(105)	Other right pillar (specify):	(185)	Air bag compartment		
(005)	Steering wheel hub/spoke				cover-passenger side		
(006)	Steering wheel (combination	(106)	Right side window glass	(186)	• '		RIOR of OCCUPANT'S
	of codes 004 and 005)	(107)	Right side window frame		cover-passenger side and	VEHIC	
(007)	Steering column, transmission	(108)	Right side window sill		eyewear	(451)	
	selector lever, other	(109)	Right side window glass	(187)	Air bag compartment	(452)	Outside hardware (e.g.,
	attachment		including one or more of the		cover-passenger side and		outside mirror, antenna)
(800)	Cellular telephone or CB radio		following: frame, window sill,	*****	jewelry	(453)	Other exterior surface or tires
(009)	Add on equipment (e.g., tape		A (A1/A2)-pillar, B-pillar, or	(188)	Air bag compartment		(specify):
	deck, air conditioner)	(440)	roof side rail.		cover-passenger side and	(4 <b>5</b> A)	
(010)	Left instrument panel and	(110)	•	(4.00)	object held	(454)	Unknown exterior objects
	below		(specify):	(189)	Air bag compartment	CVTC	5105 OF OTHER MOTOR
(011)	Center instrument panel and				cover-passenger side and		RIOR OF OTHER MOTOR
<b>(040)</b>	below	(6)755	200	(400)	object in mouth	VEHIC	
(012)	Right instrument panel and	INTER		(190)	Other air bag (specify)	(501)	•
	below		Seat, back support	4405	<u> </u>	(502)	Hood edge
(013)	Glove compartment door	(152)	Belt restraint webbing/buckle	(195)	Other air bag compartment	(503)	Other front of vehicle
(014)	Knee bolster	(153)	•		cover (specify)		(specify):
(015)	Windshield including one or		frame attachment point				-
	more of the following: front	(154)	·		_	(504)	Hood
	header, A (A1/A2)-pillar,		component (specify):	ROOF		(505)	Hood ornament
	instrument panel, mirror, or			(201)		(506)	Windshield, roof rail, A-pillar
	steering assembly (driver side	(155)	Head restraint system	(202)	Rear header	(507)	Side surface
	only)	(160)	Other occupants (specify):	(203)	Roof left side rail	(508)	Side mirrors
016)	Windshield including one or			(204)	Roof right side rail	(509)	Other side protrusions
	more of the following: front	(161)	Interior loose objects	(205)	Roof or convertible top		(specify):
	header, A (A1/A2)-pillar,	(162)	Child safety seat (specify):				
	instrument panel, or mirror		·····	FLOO		(510)	Rear surface
	(passenger side only)	(163)	Other interior object (specify):	• •	Floor (including toe pan)	(511)	Undercarriage
(017)	Windshield reinforced by			(252)	Floor or console mounted	(512)	Tires and wheels
	exterior object (specify)				transmission lever, including	(513)	Other exterior of other motor
		AIR B			console		vehicle (specify):
(019)	Other front object (specify):	(170)	•	(253)	Parking brake handle		
		(171)	Air bag-driver side and	(254)	Foot controls including	(514)	Unknown exterior of other
			eyewear		parking brake		motor vehicle
LEFT S	SIDE	(172)	Air bag-driver side and jewelry				
(051)	Left side interior surface,	(173)	Air bag-driver side and object	REAR			R VEHICLE OR OBJECT IN
	excluding hardware or		heid	(301)	Backlight (rear window)	THE	NVIRONMENT
	armrests	(174)	Air bag-driver side and object	(302)	Backlight storage rack,	(551)	Ground
(052)	Left side hardware or armrest		in mouth		door, etc.	(598)	Other vehicle or object
(053)	Left A (A1/A2)-pillar	(175)	Air bag compartment	(303)	Other rear object (specify):		(specify):
(054)	Left B-pillar		cover-driver side				
(055)	Other left pillar (specify):	(176)	Air bag compartment			(599)	Unknown vehicle or object
			cover-driver side and eyewear	ADAP'	TIVE (ASSISTIVE) DRIVING		
(056)	Left side window glass	(177)	Air bag compartment	EQUIP	MENT	NONC	ONTACT INJURY
(057)	Left side window frame		cover-driver side and jewelry	(401)	Hand controls for	(601)	Fire in vehicle
058)	Left side window sill	(178)		• ′	braking/acceleration	(602)	Flying glass
059)	Left side window glass	` '	cover-driver side and object	(402)	Steering control devices	(603)	Other noncontact injury
•	including one or more of the		held	` ,	(attached to OEM steering	, ,	source
	following: frame, window sill,	(179)	Air bag compartment		wheel)		(specify):
	A (A1/A2)-pillar, B-pillar, or	<b>(</b> · · · - <b>/</b>	cover-driver side and object in	(403)	Steering knob attached to	(604)	Air bag exhaust gases
	roof side rail.		mouth	( /	steering wheel	(697)	Injured, unknown source
060)	Other left side object	(180)	Air bag-passenger side	(405)	Replacement steering wheel	,,	,
-,	(specify):	(181)	Air bag-passenger side and	,,	(i.e., reduced diameter)		
	(-F - 201))·	(,	eyewear	(406)	Joy stick steering controls		
		(182)	Air bag-passenger side and	(407)	Wheelchair tie-downs		
RIGHT	SIDE	(102)	jewelry	(408)	Modification to seat belts,		
	Right side interior surface,		Joveny	(400)			
(101)	-			(400)	(specify):Additional or relocated		
(101)	eycluding hardware or						
(101)	excluding hardware or			(409)			
(101)	excluding hardware or armrests			(409)	switches, (specify):		

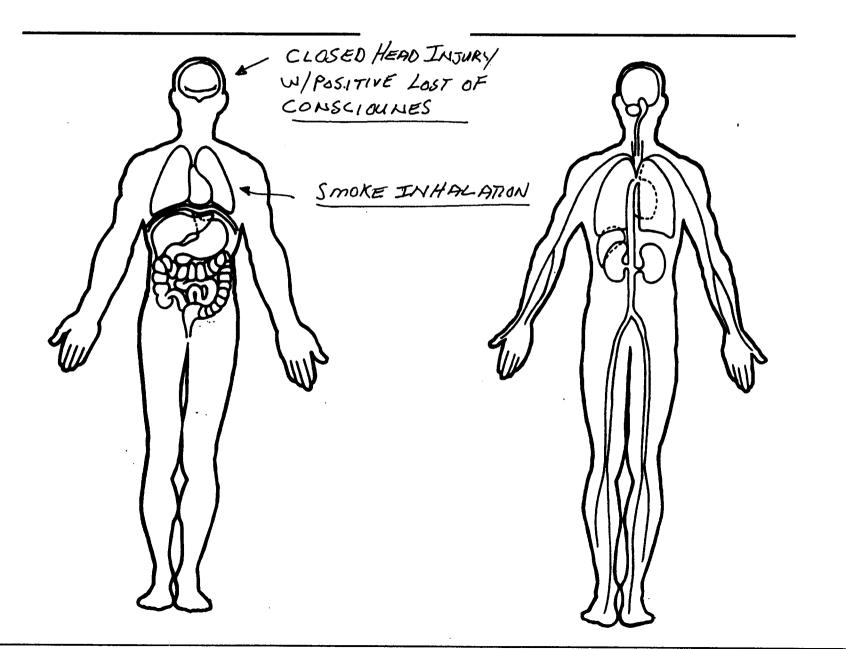
Indicate the Location, Specific Anatomic Structure, Detail (size, depth, fracture type, head injury clinical signs and neurological deficits), and Source of all injuries indicated by official sources (or from PAR or other unofficial sources if medical records and interviewee data are unavailable.)





	OFFICIAL INJURY DA	ATA — SKELETAL INJURIES	
	ndicate the Location, Specific Anatomic Structure, Detail (size, depth, fra ource of all injuries indicated by official sources (or from PAR or other un navailable.)	acture type. head injury clinical signs and neurological deficits) and	
Blood Alcohol Leve (mg/dl)			
BAL =	(bod)		
Glasgow Coma Scale Score			
GCSS =			
Units of Blood Given			
Units =			
pH =			
PO <sub>2</sub> =			
PCO <sub>2</sub>	\\\	\\\	
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		(6.757)	
	$(\mathbb{N})(\mathbb{N})$	(N)/(N)	

Indicate the Location, Specific Anatomic Structure, Detail (size, depth, fracture type, head injury clinical signs and neurological deficits), and Source of all injuries indicated by official sources (or from PAR or other unofficial sources if medical records and interviewee data are unavailable.)





NATIONAL ACCIDENT SAMPLING SYSTEM National Highway Traffic Safety CRASHWORTHINESS DATA SYSTEM Administration **OCCUPANT'S SEATING** 1. Primary Sampling Unit Number DS1-95-5P-0/3 3 2. Case Number - Stratum 10. Occupant's Seat Position Front Seat 3. Vehicle Number (11) Left side (12) Middle 4. Occupant Number (13) Right side (14) Other (specify): **OCCUPANT'S CHARACTERISTICS** (15) On or in the lap of another occupant 5. Occupant's Age Second Seat Code actual age at time of accident. (21) Left side (00) Less than one year old (specify by month): (22) Middle (23) Right side (97) 97 years and older (24) Other (specify):\_ (99) Unknown (25) On or in the lap of another occupant Third Seat 6. Occupant's Sex (31) Left side (1) Male (32) Middle (2) Female-not reported pregnant (33) Right side (3) Female-pregnant-1st trimester(1st-3rd month) (34) Other (specify):\_\_ (4) Female-pregnant-2nd trimester(4th-6th month) (35) On or in the lap of another occupant (5) Female-pregnant-3rd trimester(7th-9th month) (6) Female-pregnant-term unknown Fourth Seat (9) Unknown (41) Left side (42) Middle (43) Right side (44) Other (specify):\_ 7. Occupant's Height (45) On or in the lap of another occupant Code actual height to the nearest centimeter. (97) In or on unenclosed area (999) Unknown (98) Other seat (specify):\_\_\_\_\_ (99) Unknown inches X 2.54 = \_\_\_ centimeters 8. Occupant's Weight Code actual weight to the nearest 11. Occupant's Posture kilogram. (0) Normal posture (999) Unknown Abnormal posture (1) Kneeling or standing on seat pounds X .4536 = \_\_\_\_ kilograms Lying on or across seat (3) Kneeling, standing or sitting in front of seat 9. Occupant's Role (4) Sitting sideways or turned to talk with another (1) Driver occupant or to look out a rear window (2) Passenger Sitting on a console (9) Unknown Lying back in a reclined seat position Bracing with feet or hands on a surface in front of (8) Other abnormal posture (specify): (9) Unknown

EJE	ECTION/E	NTRAPMENT	
12. Ejection (0) No ejection (1) Complete ejection (2) Partial ejection (3) Ejection, unknown degree (9) Unknown	φ.	15. Medium Status (Immediately Prior To Impact) (0) No ejection (1) Open (2) Closed (3) Integral structure (9) Unknown	\$
13. Ejection Area  (0) No ejection (1) Windshield (2) Left front (3) Right front (4) Left rear (5) Right rear (6) Rear (7) Roof (8) Other area (e.g., back of pickup, etc.) (specify): (9) Unknown	\$	16. Entrapment (0) Not entrapped/exit not inhibited (1) Entrapped/pinned - mechanically restrained (2) Could not exit vehicle due to jammed doors etc. (specify):  (9) Unknown  17. Occupant Mobility (0) Occupant fatal before removed from vehicle	
14. Ejection Medium (0) No ejection (1) Door/hatch/tailgate (2) Nonfixed roof structure (3) Fixed glazing (4) Nonfixed glazing (specify):  (5) Integral structure (8) Other medium (specify):  (9) Unknown	φ.	<ul> <li>(1) Removed from vehicle while unconscious of disoriented</li> <li>(2) Removed from vehicle due to injuries</li> <li>(3) Exited vehicle with some assistance</li> <li>(4) Exited vehicle under own power</li> <li>(5) Occupant fully ejected</li> <li>(9) Unknown</li> </ul>	<b>「</b>

	BELT SYSTE	EM FUNCTION
18	Manual (Active) Belt System Availability (0) None available (1) Belt removed/destroyed (2) Shoulder belt	22. Shoulder Belt Upper Anchorage Adjustment (0) No shoulder belt (1) No upper anchorage adjustment for shoulder belt
	(3) Lap belt (4) Lap and shoulder belt (5) Belt available—type unknown  Integral Belt Partially Destroyed (6) Shoulder belt (lap belt destroyed/removed)	Adjustable shoulder Belt Upper Anchorage (2) In full up position (3) In mid position (4) In full down position (5) Position unknown (9) Unknown if position has adjustable upper
	(7) Lap belt (shoulder belt destroyed/removed) (8) Other belt (specify):  (9) Unknown	anchorage adjustment  23. Automatic (Passive) Belt System Availability/ Function
19.	Manual (Active) Belt System Use (00) None used, not available, or belt removed/destroyed (01) Inoperative (specify):	(0) Not equipped/not available (1) 2 point automatic belts (2) 3 point automatic belts (3) Automatic belts - type unknown  Non-functional
	(02) Shoulder belt (03) Lap belt (04) Lap and shoulder belt (05) Belt used—type unknown	(4) Automatic belts destroyed or rendered inoperative (9) Unknown  24. Automatic (Passive) Belt System Use
	(08) Other belt used (specify):  (12) Shoulder belt used with child safety seat  (13) Lap belt used with child safety seat  (14) Lap and shoulder belt used with child	(0) Not equipped/not available/destroyed or rendered inoperative (1) Automatic belt in use (2) Automatic belt not in use (manually disconnected, motorized track inoperative)
	safety seat (15) Belt used with child safety seat—type unknown (18) Other belt used with child safety seat (specify): (99) Unknown if belt used	(specify): (3) Automatic belt use unknown (9) Unknown  25. Automatic (Passive) Belt System Type (0) Not equipped/not available
20.	Proper Use of Manual (Active) Belts (0) None used or not available (1) Belt used properly (2) Belt used properly with child safety seat	(1) Non-motorized system (2) Motorized system (9) Unknown  26. Proper Use of Automatic (Passive) Belt System
	Belt Used Improperly (3) Shoulder belt worn under arm (4) Shoulder belt worn behind back or seat (5) Belt worn around more than one person	(0) Not equipped/not available/not used (1) Automatic belt used properly (2) Automatic belt used properly with child safety seat
	<ul> <li>(6) Lap belt worn on abdomen</li> <li>(7) Lap belt or lap and shoulder belt used improperly with child safety seat (specify):</li> <li>(8) Other improper use of manual belt system</li> </ul>	Automatic Belt Used Improperly (3) Automatic shoulder belt worn under arm (4) Automatic shoulder belt worn behind back (5) Automatic belt worn around more than one person
	(specify): (9) Unknown	(6) Lap portion of automatic belt worn on abdomen (7) Automatic lap and shoulder belt or automatic shoulder belt used improperly
	Manual (Active) Belt Failure Modes During Accident (0) No manual belt used or not available (1) No manual belt failure(s) (2) Torn webbing (stretched webbing not	with child safety seat (specify):  (8) Other improper use of automatic belt system (specify):  (9) Unknown
	included) (3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (specify):	27. Automatic (Passive) Belt Failure Modes During Accident (0) Not equipped/not available/not in use (1) No automatic belt failure(s)
	<ul> <li>(6) Broken retractor</li> <li>(7) Combination of above (specify):</li> <li>(8) Other manual belt failure (specify):</li> </ul>	<ul> <li>(1) No automatic belt failure(s)</li> <li>(2) Torn webbing (stretched webbing not included)</li> <li>(3) Broken buckle or latchplate</li> <li>(4) Upper anchorage separated</li> <li>(5) Other anchorage separated (specify):</li> </ul>
	(9) Unknown	<ul> <li>(6) Broken retractor</li> <li>(7) Combination of above (specify):</li> <li>(8) Other automatic belt failure (specify):</li> </ul>
		(9) Unknown

POLICE REPORTED RESTRAINT USE	AIR BAG SYSTEM FUNCTION
28. Police Reported Belt Use  (0) None used (1) Police did not indicate belt use (2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt (5) Belt used, type not specified (6) Child safety seat (7) Automatic belt (8) Other type belt, (specify):	30. Frontal Air Bag System Availability/Function (This Occupant Position) (0) Not equipped/not available (1) Air bag  Non-functional (2) Air bag disconnected (specify):  (3) Air bag not reinstalled (9) Unknown
(9) Police indicated "unknown"  29. Police Reported Air Bag Availability/Function (0) No air bag available (1) Police did not indicate air bag availability/function (2) Deployed (3) Not deployed (4) Unknown if deployed (9) Police indicated "unknown"	31. Frontal Air Bag System Deployment (This Occupant Position) (0) Not equipped/not available (1) Deployed during accident (as a result of impact) (2) Deployed inadvertently just prior to accident (3) Deployed, details unknown (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (5) Unknown if deployed (7) Nondeployed (9) Unknown
Check the Primary Source Used In Determining Belt Use.  [ ] Not equipped/not available/destroyed or rendered inoperative [ ] Vehicle inspection [ ] Official injury data [ ] Driver/occupant interview [ ] Other (specify):	32. Other Than First Seat Frontal Air Bag Availability/Function (This Occupant Position) (0) Not equipped/not available (1) Air bag  Non-functional (2) Air bag disconnected (specify):  (3) Air bag not reinstalled (9) Unknown Specify type of "other" air bag present:
	33. Air Bag(s) Deployment, Other Than First Seat Frontal (This Occupant Position) (0) Not equipped with an "other" air bag (1) Deployed during accident (as a result of impact) (2) Deployed inadvertently just prior to accident (3) Deployed, details unknown (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (5) Unknown if deployed (7) Nondeployed (9) Unknown
	34. Are There Indications of Air Bag System Failure? (This Occupant Position) (0) Not equipped/not available (1) No (2) Yes (specify):  (9) Unknown

FIRST SEAT FRONTAL AIR	BAG SYSTEM EVALUATION
35. Had Vehicle Been in Previous Accident(s)? (0) Not equipped/not available (1) No previous accidents  Yes (2) Previous accident(s) without deployment(s) (3) One previous accident with deployment (4) More than one previous accident with at least one deployment (8) Previous accidents, unknown deployment status (9) Unknown	40. Longitudinal Component of Delta V For Air Bag Deployment Impact (-000) Not equipped/not available Code the value of the delta V for the impact that initiated the air bag deployment (-996) Deployment, unknown longitudinal Delta V (-997) Not deployed (-998) Unknown if deployed (-999) Unknown
36. Type of Air Bag  (0) Not equipped/not available  (1) Original manufacturer installed system  (2) Retrofitted air bag  (3) Replacement air bag  (8) Unknown type of air bag  (9) Unknown	41. Did Air Bag Module Cover Flap(s) Open At Designated Tear Points? (0) Not equipped/not available (1) No (2) Yes (3) Deployed, unknown if flap(s) opened at designated tear points (7) Not deployed (8) Unknown if deployed (9) Unknown
37. Had Any Prior Maintenance/Service Been Performed On This Air Bag System?  (0) Not equipped/not available (1) No prior maintenance (2) Yes, prior maintenance (specify):  (9) Unknown	42. Were Air Bag Module Cover Flap(s) Damaged?  (0) Not equipped/not available  (1) No  (2) Yes (specify):  (3) Deployed, unknown if air bag module cover flap(s) damaged  (7) Not deployed
38. Air Bag Deployment Accident Event Sequence Number (00) Not equipped/not available Code the accident event sequence number that initiated the air bag deployment (96) Deployed, unknown event (97) Not deployed (98) Unknown if deployed (99) Unknown	(8) Unknown if deployed (9) Unknown  43. Was There Damage To The Air Bag? (00) Not equipped/not available (01) Not damaged  Yes - Air Bag Damage (02) Ruptured (03) Cut (04) Torn
39. CDC For Air Bag Deployment Impact (0) Not equipped/not available (1) Highest delta V (2) Second highest delta V (3) Other non-coded delta V (specify):  (6) Deployed, unknown event (7) Not deployed (8) Unknown if deployed (9) Unknown	(05) Holed (06) Burned (07) Abraded (88) Other damage (specify):  (95) Damaged, details unknown (96) Deployed, unknown if damaged (97) Not deployed (98) Unknown if deployed (99) Unknown

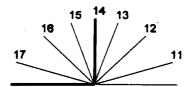
#### FIRST SEAT FRONTAL AIR BAG SYSTEM HEAD RESTRAINT AND SEAT EVALUATION **EVALUATION** continued 49. Head Restraint Type/Damage by Occupant 44. Source of Air Bag Damage at This Occupant Position (00) Not equipped/not available (0) No head restraints (01) Not damaged (1) Integral—no damage (02) Object worn by occupant, (specify): (2) Integral—damaged during accident (3) Adjustable—no damage (4) Adjustable—damaged during accident (03) Object carried by occupant, (specify): (5) Add-on—no damage(6) Add-on—damaged during accident (04) Adaptive/assistive controls, (specify): (8) Other (specify): (05) Fire in vehicle (06) Thermal burns (9) Unknown (07) Rescue or emergency efforts (88) Other damage source (specify): 50. Seat Type (this Occupant Position) (00) Occupant not seated or no seat (95) Damaged, unknown source (01) Bucket (96) Deployed, unknown if damaged (02) Bucket with folding back (97) Not deployed (03) Bench (98) Unknown if deployed (04) Bench with separate back cushions (99) Unknown (05) Bench with folding back(s) (06) Split bench with separate back cushions (07) Split bench with folding back(s) 45. Was The Air Bag Tethered? (08) Pedestal (i.e., column supported) (0) Not equipped/not available (09) Box mounted seat (i.e., van type) (1) No (10) Other seat type (specify): (2) Yes (specify number of tether straps): (99) Unknown (3) Deployed, unknown if tethered (7) Not deployed 51. Seat Orientation (this Occupant Position) (8) Unknown if deployed (0) Occupant not seated or no seat (9) Unknown (1) Forward facing seat 46. Did The Air Bag Have Vent Ports? (2) Rear facing seat (0) Not equipped/not available (3) Side facing seat (inward) (1) No (4) Side facing seat (outward) (2) Yes (specify number of vent ports): (8) Other (specify): (3) Deployed, unknown if vent ports present (9) Unknown (7) Not deployed (8) Unknown if deployed 52. Seat Track Adjusted Position Prior To Impact (9) Unknown (0) Occupant not seated or no seat (1) Non-adjustable seat track 47. Was the Air Bag in this Occupant's Position Contacted by Another Occupant? Adjustable Seat Track (0) Not equipped/not available (2) Seat at forward most track position (1) No (3) Seat between forward most and middle track (2) Yes (specify): (4) Seat at middle track position (3) Deployed, unknown if other occupant contact to (5) Seat between middle and rear most track air bag positions (7) Not deployed (6) Seat at rear most track position (8) Unknown if deployed (9) Unknown (9) Unknown 48. Was This Occupant Wearing Eye-wear? (0) Not equipped/not available (1) No (2) Eyeglasses/sunglasses (3) Contact lenses (4) Deployed, unknown if eyewear worn (7) Not deployed (8) Unknown if deployed (9) Unknown

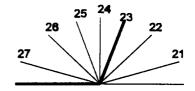
## HEAD RESTRAINT AND SEAT EVALUATION continued

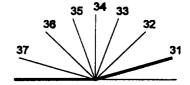
53. Seat Back Incline Prior and Post Impact (00) Occupant not seated or no seat (01) Not adjustable Upright prior to impact (11) Moved to completely rearward position (12) Moved to rearward midrange position (13) Moved to slightly rearward position (14) Retained pre-impact position (15) Moved to slightly forward position (16) Moved to forward midrange position (17) Moved to completely forward position Slightly reclined prior to impact (21) Moved to completely rearward position (22) Moved to rearward midrange position (23) Retained pre-impact position (24) Moved to upright position (25) Moved to slightly forward position (26) Moved to forward midrange position (27) Moved to completely forward position Completely reclined prior to impact (31) Retained pre-impact position (32) Moved to rearward midrange position (33) Moved to slightly rearward position(34) Moved to upright position (35) Moved to slightly forward position (36) Moved to forward midrange position (37) Moved to completely forward position (99) Unknown 54. Seat Performance (this Occupant Position) (0) Occupant not seated or no seat (1) No seat performance failure(s) (2) Seat adjusters failed (3) Seat back folding locks or "seat back" failed (specify): (4) Seat track/anchors failed (5) Deformed by impact of occupant (6) Deformed by passenger compartment intrusion, (specify):

(7) Combination of above (specify):

(8) Other (specify): (9) Unknown







### CHILD SAFETY SEAT Ø qu 55. Child Safety Seat Make/Model 58. Child Safety Seat Harness Usage (000) No child safety seat Applicable codes are found in your NASS CDS Data Collection, Coding and Editing 59. Child Safety Seat Shield Usage (950) Built-in child safety seat (997) Other make/model (specify): 60. Child Safety Seat Tether Usage (998) Unknown make/model (999) Unknown if child safety seat used Note: Options below applicable to Variables OA58-OA60. 56. Type of Child Safety Seat (00) No child safety seat (0) No child safety seat (1) Infant seat Not Designed With Harness/Shield/Tether (2) Toddler seat (01) After market harness/shield/tether (3) Convertible seat added, not used (4) Booster seat - with shield (02) After market harness/shield/tether used (5) Booster seat - without shield (03) Child safety seat used, but no after market (7) Other type child safety seat (specify): harness/shield/tether added (09) Unknown if harness/shield/tether (8) Unknown child safety seat type added or used (9) Unknown if child safety seat used Designed With Harness/Shield/Tether (11) Harness/shield/tether not used 57. Child Safety Seat Orientation (12) Harness/shield/tether used (00) No child safety seat (19) Unknown if harness/shield/tether used Designed for Rear Facing for This Age/Weight Unknown If Designed With Harness/Shield/Tether (21) Harness/shield/tether not used (01) Rear facing (02) Forward facing (22) Harness/shield/tether used (08) Other orientation (specify): (29) Unknown if harness/shield/tether used (09) Unknown orientation (99) Unknown if child safety seat used Designed For Forward Facing for This Age/Weight (11) Rear facing (12) Forward facing (18) Other orientation (specify): (19) Unknown orientation Unknown Design or Orientation For This Age/Weight, or Unknown Age/Weight (21) Rear facing (22) Forward facing (28) Other orientation (specify): (29) Unknown orientation (99) Unknown if child safety seat used

INJURY CONSEQUENCES	
(0) O - No injury (1) C - Possible injury (2) B - Nonincapacitating injury (3) A - Incapacitating injury (4) K - Killed (5) U - Injury, severity unknown (6) Died prior to accident (9) Unknown  62. Treatment - Mortality (0) No treatment (1) Fatal (2) Fatal - ruled disease (specify):   Nonfatal (3) Hospitalization (4) Transported and released (5) Treatment at scene - nontransported (6) Treatment later (7) Treatment - other (specify):  (8) Transported to a medical facility-unknown if treated (9) Unknown	63. Type Of Medical Facility (for Initial Treatment)  (0) Not treated at a medical facility  (1) Trauma center  (2) Hospital  (3) Medical clinic  (4) Physician's office  (5) Treatment later at medical facility  (8) Other (specify):  (9) Unknown  64. Hospital Stay  (00) Not Hospitalized  Code the number of days (up through 60) that the occupant stayed in hospital.  (61) 61 days or more  (99) Unknown  65. Working Days Lost  Code the number of days  (up through 60) that the occupant lost from work due to the accident  (00) No working days lost  (61) 61 days or more  (62) Fatally injured  (97) Not working prior to accident  (99) Unknown
99. Case Occupant (0) Not the Case Occupant (1) This is the Case Occupant (2) This is the Case Occupant in another case.	

**STOP WORK HERE** 

**VARIABLES 66-74** 

TRAUMA DATA
71. Glasgow Coma Scale (GCS) Score (at Medical Facility) (00) Not injured (01) Injured - not treated at medical facility (02) No GCS Score at medical facility (03-15) Code the actual value of the initial GCS Score recorded at medical facility. (97) Injured, details unknown (99) Unknown if injured
72. Was the Occupant Given Blood?  (1) No - blood not given  (2) Yes - blood given  (specify units):  (9) Unknown if blood given
73. Arterial Blood Gases (ABG) – HCO <sub>3</sub> (00) Not injured  (01) Injured, ABGs not measured or reported  (02-50) Code the actual value of the HCO <sub>3</sub> (96) ABGs reported, HCO <sub>3</sub> unknown  (97) Injured, details unknown  (99) Unknown if injured
BELT USE DETERMINATION
74. Primary Source of Belt Use Determination (0) Not equipped/not available/destroyed or rendered inoperative (1) Vehicle inspection (2) Official injury data (3) Driver/occupant interview (8) Other (specify): (9) Unknown if belt used

2. Case Number - Stratum

BEST AVAILABLE

Form Approved

O.M.B. No. 2127-00 NATIONAL ACCIDENT SAMPLING SYSTE CRASHWORTHINESS DATA SYSTE

## **OCCUPANT INJURY FORM**

National Highway Traffic Safety Administration

1. Primary Sampling Unit Number

DS1-95-5P-013

3. Vehicle Number

\$ 1

4. Occupant Number

## **INJURY DATA**

Record below the actual injuries sustained by this occupant that were identified from the official and unofficial data sources. Remember not to double count an injury just because it was identified from two different sources. If greater than ten injuries have been documented, encode the balance on the Occupant Injury Supplement.

l				A.I.S 90	)				Injury	Occupant		
1	Source of Injury Data	Body Region	Type of Anatomic Structure	Specific Anatomic Structure	Level of Injury	A.I.S. Severity	Aspect	Injury Source	Source Confidence Level	Direct/ Indirect Injury	Area Intrusion Number	ICD-9
1st	5. <u>Z</u>	6. <u>Ø</u>	79	• <b>2</b> 0	9. <u>LZ</u>	10. <u>Z</u>	11312	<u>601</u>	_ 13	14. <u>3</u>	15. <u>D</u>	9 <u>18.1</u>
2nd	16. <u>Z</u>	17. <u>5</u>	18. <u>9</u>	19.62	20 <u>66</u>	21	2223	<u>69</u> 7	_ 24 <u>.                                   </u>	25. <u>7</u>	26. <u>ØØ</u>	<u>877</u> 4
3ed	27 <u>.Z</u>	28.2	25	30. <u>[8</u>	31 <u>66</u>	32.3	33. <u>/</u> 34	\$LZ	_ 35. <u>Z</u>	36. <u>Z</u>	37. <u>99</u>	<u> 836.8</u>
4th :	38. <u>A</u>	39. <u>2</u> 2	40.5	41. <u>34</u>	12 <u>64</u>	43,2	44.245	<i>351</i>	46.2	47. <u> </u>	48. <u>99</u>	<u>8738</u>
5th -	49.Z	50. <u>B</u>	51€	52. <u>//</u>	53. <u>Ø5</u>	54. <u>3</u> .	55 <u>∠</u> 56	25L	_ 57.Z	58	59. <u>99</u>	<u>8738</u>
6 <b>th</b> (	60. <u>A</u>	er. <u>4</u>	62.4	63. <u>/ Ø</u>	a \$\phi Z	65. <u>3</u>	66. <u>/</u> 67.	<u>697</u>	7 68. <u>9</u>	69. 7	70.60	861.0
7th '	71.Z	72.9	73. <u>L</u>	14 <u>97</u>	15. <u>04</u>	(ro Z)	3 πØ18.	401	_ 79. <u> </u>	80. <u>3</u>	81. <u>ØØ</u>	9 <u>86</u>
8th:	82	83	84	85	86	87	8889.		_ 90	91	92	
9th (	93	94	95	96	97	98	99100		_ 101,	102	103	<del>-</del>
10th 1	104:	105	106	107	108	109	110111	·	_ 112	113	114	

### OCCUPANT INJURY CLASSIFICATION

## **Body Region**

- Head
- Face
- (2) (3) Neck
- Thorax
- (4) (5) (6) (7) Abdomen
- Spine
- **Upper Extremity**
- (8) Lower Extremity
- (9) Unspecified

### **Type of Anatomic** Structure

- Whole Area
- Vessels
- Nerves
- (2) (3) (4) Organs (includes Muscles/ligaments)
- (5) Skeletal (includes joints)
- Head LOC (6)
- **(9)** Skin

### **Specific Anatomic** Structure

Vessels, Nerves, Organs. Bones, Joints are assigned consecutive two digit numbers beginning with 02.

The exceptions to this rule apply to:

## Whole Area

- Skin Abrasion (02)
- Skin Contusion (04)
- (06) Skin - Laceration
- Skin Avulsion (80)
- (10) Amputation
- (20)Burn
- (30) Crush
- Dealovina (40)
- Injury NFS (50)
- Trauma, other than (90) mechanical

# Head - LOC

- (02) Length of LOC
- (04) Level
- of (06)
- (08) Consciousness
- (10) Concussion

### **Spine**

- (02)Cervical
- Thoracic (04)
- (06) Lumbar

### Level of Injury

Specific injuries are assigned consecutive two-digit numbers beginning with 02.

To the extent possible, within the organizational framework of the AIS, 00 is assigned to an injury NFS as to severity or where only one (0) injury is given in the dictionary for that anatomic structure. 99 is assigned to any injury NFS as to lesion or severity.

## **Abbreviated Injury Scale**

- Minor Injury
- (2) (3) Moderate Injury
- Serious Injury
- (4) Severe Injury
- (5) Critical Injury
- Maximum (untreatable)
- lniured, unknown severity

### **Aspect**

- Right
- Left
- (3)Bilateral
- Central
- (4) (5) Anterior
- Posterior
- Superior
- (8) Inferior
- (9) Unknown
- Whole region

# SOURCE OF INJURY DATA

## OFFICIAL RECORDS

- (1) Autopsy records with or without hospital/medical records
- (2) Hospital/medical records other than emergency room (e.g., discharge summary)
- (3) Emergency room records only (including associated X-rays or other lab reports)
- (4) Private physician, walk-in or emergency clinic

### **UNOFFICIAL RECORDS**

- (5) Lay coroner report
- (6) E.M.S. personnel
- (7) Interviewee
- (8) Other source (specify):
- (9) Police

# **INJURY SOURCE** CONFIDENCE LEVEL

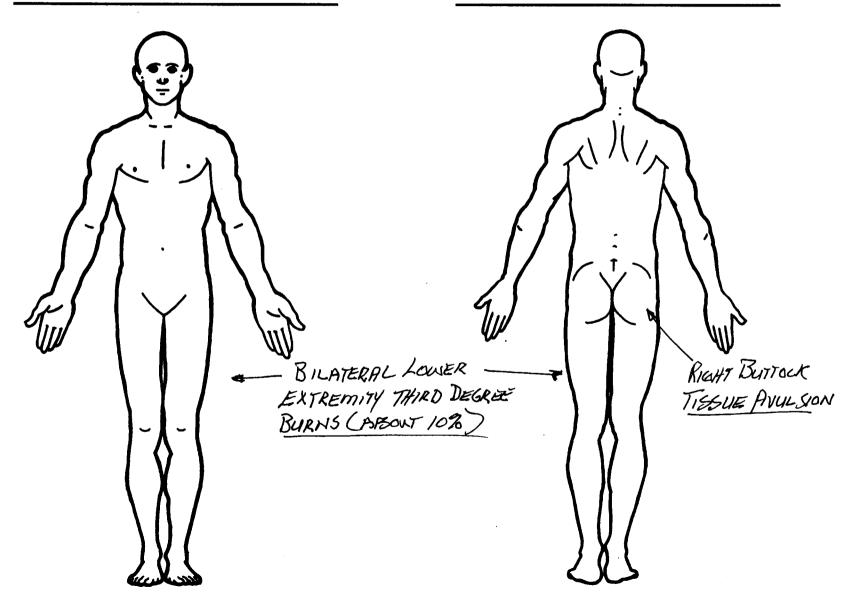
- (1) Certain
- (2) Probable
- (3) Possible
- (9) Unknown

# DIRECT/INDIRECT INJURY

- - Direct contact injury Indirect contact injury
  - Noncontact injury
  - Injured, unknown source

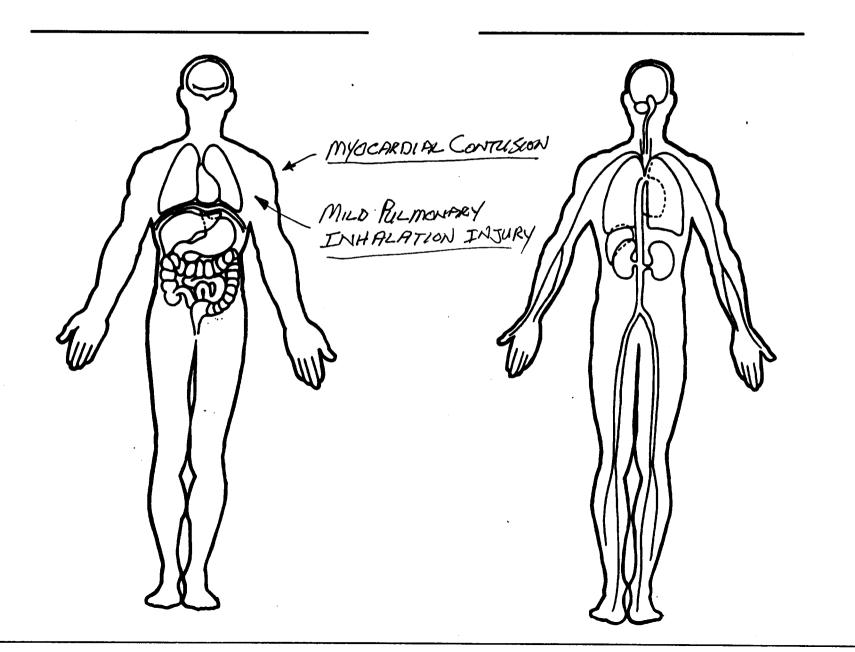
#### INJURY SOURCES FRONT (102)Right side hardware or Air bag-passenger side and Wall mounted head rest (used (183)object held (001) Windshield armrest behind wheel chair) Right A (A1/A2)-pillar (002) Mirror (103)(184)Air bag-passenger side and (412)Other adaptive device Right B-pillar (003)Sunvisor (104)object in mouth (specify): (004) Steering wheel rim (105) Other right pillar (specify): (185)Air bag compartment (005) Steering wheel hub/spoke cover-passenger side Steering wheel (combination (106)Right side window glass **EXTERIOR of OCCUPANT'S** (006)Air bag compartment of codes 004 and 005) (107) Right side window frame cover-passenger side and VEHICLE. (108) (007) Steering column, transmission Right side window sill eyewear (451) Hood selector lever, other Right side window glass (109)Outside hardware (e.g., (187) Air bag compartment (452)including one or more of the cover-passenger side and outside mirror, antenna) (800)Cellular telephone or CB radio following: frame, window sill, iewelry Other exterior surface or tires (009) Add on equipment (e.g., tape A (A1/A2)-pillar, B-pillar, or (188) Air bag compartment (specify): deck, air conditioner) roof side rail. cover-passenger side and (110) Other right side object (010) Left instrument panel and (454) Unknown exterior objects object held below (specify): (189) Air bag compartment (011) Center instrument panel and cover-passenger side and EXTERIOR OF OTHER MOTOR below object in mouth **VEHICLE** (012) Right instrument panel and INTERIOR (190) Other air bag (specify) (501) Front bumper below (151) Seat, back support (502) Hood edge (013) Glove compartment door (152) Belt restraint webbing/buckle (195) Other air bag compartment (503) Other front of vehicle (153) Belt restraint B-pillar or door (014) Knee bolster cover (specify) (specify): (015) Windshield including one or frame attachment point more of the following: front Other restraint system (504)Hood header, A (A1/A2)-pillar, component (specify): ROOF (505)Hood ornament instrument panel, mirror, or (201) Front header (506)Windshield, roof rail, A-pillar steering assembly (driver side (155)Head restraint system (202)Rear header (507)Side surface Roof left side rail (160) Other occupants (specify): (203) (508)Side mirrors only) (016) Windshield including one or (204)Roof right side rail (509)Other side protrusions more of the following: front Interior loose objects (205)Roof or convertible top (specify): header, A (A1/A2)-pillar, Child safety seat (specify): instrument panel, or mirror FLOOR (510)Rear surface (163) Other interior object (specify): (251) Floor (including toe pan) (511)Undercarriage (passenger side only) (017) Windshield reinforced by Floor or console mounted (512)Tires and wheels (252)exterior object (specify) transmission lever, including (513)Other exterior of other motor AIR BAG vehicle (specify): (019) Other front object (specify): (170) Air bag-driver side Parking brake handle (171)Air bag-driver side and (254) Foot controls including (514) Unknown exterior of other eyewear parking brake motor vehicle LEFT SIDE (172) Air bag-driver side and jewelry (051) Left side interior surface. REAR OTHER VEHICLE OR OBJECT IN (173) Air bag-driver side and object excluding hardware or held (301) Backlight (rear window) THE ENVIRONMENT armrests (174) Air bag-driver side and object (302)Backlight storage rack, (551) Ground (052) Left side hardware or armrest (598) Other vehicle or object in mouth door, etc. (053) Left A (A1/A2)-pillar (175) Air bag compartment (303) Other rear object (specify): (specify): (054) Left B-pillar cover-driver side Other left pillar (specify): (055) (176) Air bag compartment (599) Unknown vehicle or object ADAPTIVE (ASSISTIVE) DRIVING cover-driver side and eyewear (056)Left side window glass EQUIPMENT NONCONTACT INJURY (177) Air bag compartment (057)Left side window frame cover-driver side and jewelry (401) Hand controls for (601) Fire in vehicle (058)Left side window sill (178) Air bag compartment braking/acceleration (602) Flying glass (059)Left side window glass cover-driver side and object Other noncontact injury Steering control devices (603)including one or more of the held (attached to OEM steering source following: frame, window sill, (179) Air bag compartment wheel) (specify): A (A1/A2)-pillar, B-pillar, or (604) Air bag exhaust gases cover-driver side and object in (403) Steering knob attached to roof side rail. mouth steering wheel (697) injured, unknown source Other left side object (060) (180) Air bag-passenger side (405) Replacement steering wheel (specify): (181) Air bag-passenger side and (i.e., reduced diameter) (406)Joy stick steering controls Air bag-passenger side and (407) Wheelchair tie-downs RIGHT SIDE jewelry (408) Modification to seat belts. (101) Right side interior surface, (specify): excluding hardware or Additional or relocated armrests switches, (specify): (410) Raised roof

Indicate the Location, Specific Anatomic Structure, Detail (size, depth, fracture type, head injury clinical signs and neurological deficits), and Source of all injuries indicated by official sources (or from PAR or other unofficial sources if medical records and interviewee data are unavailable.)



	OFFICIAL INJURY DATA — SKELETAL INJURIES	
	Indicate the Location, Specific Anatomic Structure, Detail (size, depth, fracture type, head injury clinical signs and neurological deficits), and Source of all injuries indicated by official sources (or from PAR or other unofficial sources if medical records and interviewee data are navailable.)	
Biood Alcohol Level (mg/di)		
BAL =		
Glasgow Coma Scale Score		
GCSS =		
Units of Blood Given		
Units =		
Arterial Blood Gase		
PO <sub>2</sub> =	Prost Femus	
PCO <sub>2</sub>	RIGHT FEMUR FRETURE	
	LEFT TIBIA 4 FIBULA	
	PAGCINES	

Indicate the Location, Specific Anatomic Structure, Detail (size, depth, fracture type, head injury clinical signs and neurological deficits), and Source of all injuries indicated by official sources (or from PAR or other unofficial sources if medical records and interviewee data are unavailable.)





National Highway Traffic Safety Administration	NATIONAL ACCIDENT SAMPLING SYSTEM  CRASHWORTHINESS DATA SYSTEM
Primary Sampling Unit Number	OCCUPANT'S SEATING
2. Case Number - Stratum <b>3</b> 5/-95-59-4/3	10. Occupant's Seat Position 9, 9
3. Vehicle Number	(11) Left side (12) Middle
4. Occupant Number Q 3	(13) Right side
OCCUPANT'S CHARACTERISTICS  5. Occupant's Age Code actual age at time of accident. (00) Less than one year old (specify by month):  (97) 97 years and older (99) Unknown  6. Occupant's Sex (1) Male (2) Female-not reported pregnant (3) Female-pregnant-1st trimester(1st-3rd month) (4) Female-pregnant-2nd trimester(4th-6th month) (5) Female-pregnant-term unknown (9) Unknown  7. Occupant's Height Code actual height to the nearest centimeter. (999) Unknown inches X 2.54 =centimeters  8. Occupant's Weight Code actual weight to the nearest kilogram. (999) Unknown pounds X .4536 =kilograms  9. Occupant's Role (1) Driver (2) Passenger (9) Unknown	(12) Middle (13) Right side (14) Other (specify): (15) On or in the lap of another occupant  Second Seat (21) Left side (22) Middle (23) Right side (24) Other (specify): (25) On or in the lap of another occupant  Third Seat (31) Left side (32) Middle (33) Right side (34) Other (specify): (35) On or in the lap of another occupant  Fourth Seat (41) Left side (42) Middle (43) Right side (44) Other (specify): (45) On or in the lap of another occupant  (97) In or on unenclosed area (98) Other seat (specify): (99) Unknown  11. Occupant's Posture (1) Kneeling or standing on seat (2) Lying on or across seat (3) Kneeling, standing or sitting in front of seat (4) Sitting sideways or turned to talk with another occupant or to look out a rear window (5) Sitting on a console (6) Lying back in a reclined seat position (7) Bracing with feet or hands on a surface in front of seat (8) Other abnormal posture (specify): (9) Unknown

# National Accident Sampling System-Crashworthiness Data System: Occupant Assessment Form

EJEC	TION/E	NTRAPMENT
12. Ejection (0) No ejection (1) Complete ejection (2) Partial ejection (3) Ejection, unknown degree (9) Unknown	#	15. Medium Status (Immediately Prior To Impact) (0) No ejection (1) Open (2) Closed (3) Integral structure (9) Unknown
13. Ejection Area  (0) No ejection (1) Windshield (2) Left front (3) Right front (4) Left rear (5) Right rear (6) Rear (7) Roof (8) Other area (e.g., back of pickup, etc.) (specify): (9) Unknown	\$	16. Entrapment (0) Not entrapped/exit not inhibited (1) Entrapped/pinned - mechanically restrained (2) Could not exit vehicle due to jammed doors, fire, etc. (specify): FIRE  (9) Unknown  17. Occupant Mobility (0) Occupant fatal before removed from vehicle
14. Ejection Medium (0) No ejection (1) Door/hatch/tailgate (2) Nonfixed roof structure (3) Fixed glazing (4) Nonfixed glazing (specify):  (5) Integral structure (8) Other medium (specify):  (9) Unknown	ф.	<ul> <li>(1) Removed from vehicle while unconscious or disoriented</li> <li>(2) Removed from vehicle due to injuries</li> <li>(3) Exited vehicle with some assistance</li> <li>(4) Exited vehicle under own power</li> <li>(5) Occupant fully ejected</li> <li>(9) Unknown</li> </ul>

	BELT SYSTE	EM FUNCTION
18.	Manual (Active) Belt System Availability (0) None available (1) Belt removed/destroyed (2) Shoulder belt	22. Shoulder Belt Upper Anchorage Adjustment (0) No shoulder belt (1) No upper anchorage adjustment for shoulder belt
	<ul> <li>(3) Lap belt</li> <li>(4) Lap and shoulder belt</li> <li>(5) Belt available—type unknown</li> <li>Integral Belt Partially Destroyed</li> <li>(6) Shoulder belt (lap belt destroyed/removed)</li> <li>(7) Lap belt (shoulder belt destroyed/removed)</li> </ul>	Adjustable shoulder Belt Upper Anchorage (2) In full up position (3) In mid position (4) In full down position (5) Position unknown (9) Unknown if position has adjustable upper anchorage adjustment
	(8) Other belt (specify): (9) Unknown	23. Automatic (Passive) Belt System Availability/ Function
19.	Manual (Active) Belt System Use (00) None used, not available, or belt removed/destroyed (01) Inoperative (specify):	<ul> <li>(0) Not equipped/not available</li> <li>(1) 2 point automatic belts</li> <li>(2) 3 point automatic belts</li> <li>(3) Automatic belts - type unknown</li> </ul>
	(02) Shoulder belt (03) Lap belt (04) Lap and shoulder belt	Non-functional (4) Automatic belts destroyed or rendered inoperative (9) Unknown
	(05) Belt used—type unknown (08) Other belt used (specify): (12) Shoulder belt used with child safety seat	24. Automatic (Passive) Belt System Use (0) Not equipped/not available/destroyed or rendered inoperative (1) Automatic belt in use (2) Automatic belt not in use (manually
	<ul> <li>(13) Lap belt used with child safety seat</li> <li>(14) Lap and shoulder belt used with child safety seat</li> <li>(15) Belt used with child safety seat—type unknown</li> <li>(18) Other belt used with child safety seat</li> </ul>	disconnected, motorized track inoperative) (specify): (3) Automatic belt use unknown (9) Unknown
20.	(specify):	25. Automatic (Passive) Belt System Type (0) Not equipped/not available (1) Non-motorized system (2) Motorized system (9) Unknown
	<ul> <li>(0) None used or not available</li> <li>(1) Belt used properly</li> <li>(2) Belt used properly with child safety seat</li> <li>Belt Used Improperly</li> <li>(3) Shoulder belt worn under arm</li> </ul>	26. Proper Use of Automatic (Passive) Belt System (0) Not equipped/not available/not used (1) Automatic belt used properly (2) Automatic belt used properly with
	<ul> <li>(4) Shoulder belt worn behind back or seat</li> <li>(5) Belt worn around more than one person</li> <li>(6) Lap belt worn on abdomen</li> <li>(7) Lap belt or lap and shoulder belt used improperly with child safety seat (specify):</li> </ul>	child safety seat  Automatic Belt Used Improperly (3) Automatic shoulder belt worn under arm (4) Automatic shoulder belt worn behind back (5) Automatic belt worn around more than
	(8) Other improper use of manual belt system (specify):	one person (6) Lap portion of automatic belt worn on abdomen (7) Automatic lap and shoulder belt or
21.	(9) Unknown  Manual (Active) Belt Failure Modes	automatic shoulder belt used improperly with child safety seat (specify):
	During Accident  (0) No manual belt used or not available  (1) No manual belt failure(s)  (2) Torn webbing (stretched webbing not included)	(8) Other improper use of automatic belt system (specify): (9) Unknown
	(3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (specify):	27. Automatic (Passive) Belt Failure Modes During Accident (0) Not equipped/not available/not in use (1) No automatic belt failure(s)
	(6) Broken retractor (7) Combination of above (specify):	(2) Torn webbing (stretched webbing not included) (3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (specify):
	(8) Other manual belt failure (specify):  (9) Unknown	(6) Broken retractor (7) Combination of above (specify):
		(8) Other automatic belt failure (specify):  (9) Unknown

POLICE REPORTED RESTRAINT USE	AIR BAG SYSTEM FUNCTION
28. Police Reported Belt Use  (0) None used (1) Police did not indicate belt use (2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt (5) Belt used, type not specified (6) Child safety seat (7) Automatic belt (8) Other type belt, (specify):	30. Frontal Air Bag System Availability/Function (This Occupant Position) (0) Not equipped/not available (1) Air bag  Non-functional (2) Air bag disconnected (specify):  (3) Air bag not reinstalled (9) Unknown
(9) Police indicated "unknown"  29. Police Reported Air Bag Availability/Function (0) No air bag available (1) Police did not indicate air bag availability/function (2) Deployed (3) Not deployed (4) Unknown if deployed (9) Police indicated "unknown"	<ul> <li>31. Frontal Air Bag System Deployment (This Occupant Position)</li> <li>(0) Not equipped/not available</li> <li>(1) Deployed during accident (as a result of impact)</li> <li>(2) Deployed inadvertently just prior to accident</li> <li>(3) Deployed, details unknown</li> <li>(4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical)</li> <li>(5) Unknown if deployed</li> <li>(7) Nondeployed</li> <li>(9) Unknown</li> </ul>
Check the Primary Source Used In Determining Belt Use.  [] Not equipped/not available/destroyed or rendered inoperative [] Vehicle inspection [] Official injury data [] Driver/occupant interview [] Other (specify):	32. Other Than First Seat Frontal Air Bag Availability/Function (This Occupant Position) (0) Not equipped/not available (1) Air bag  Non-functional (2) Air bag disconnected (specify):  (3) Air bag not reinstalled (9) Unknown Specify type of "other" air bag present:
	33. Air Bag(s) Deployment, Other Than First Seat Frontal (This Occupant Position) (0) Not equipped with an "other" air bag (1) Deployed during accident (as a result of impact) (2) Deployed inadvertently just prior to accident (3) Deployed, details unknown (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (5) Unknown if deployed (7) Nondeployed (9) Unknown  34. Are There Indications of Air Bag System Failure? (This Occupant Position) (0) Not equipped/not available
	(0) Not equipped/not available (1) No (2) Yes (specify):  (9) Unknown

FIRST SEAT	FRONTAL AIR BAG SYSTEM EVALUATION
<ul> <li>35. Had Vehicle Been in Previous Accident(</li> <li>(0) Not equipped/not available</li> <li>(1) No previous accidents</li> <li>Yes</li> <li>(2) Previous accident(s) without deployer</li> <li>(3) One previous accident with deployer</li> <li>(4) More than one previous accident with deployment</li> <li>(8) Previous accidents, unknown deployer</li> <li>(9) Unknown</li> </ul>	Delta V For Air Bag Deployment Impact (-000) Not equipped/not available Code the value of the delta V for the impact that initiated the air bag deployment (-996) Deployment, unknown longitudinal Delta V (-997) Not deployed (-998) Unknown if deployed
<ul> <li>36. Type of Air Bag</li> <li>(0) Not equipped/not available</li> <li>(1) Original manufacturer installed system</li> <li>(2) Retrofitted air bag</li> <li>(3) Replacement air bag</li> <li>(8) Unknown type of air bag</li> <li>(9) Unknown</li> </ul>	em  41. Did Air Bag Module Cover Flap(s) Open At Designated Tear Points?  (0) Not equipped/not available  (1) No (2) Yes (3) Deployed, unknown if flap(s) opened at designated tear points  (7) Not deployed (8) Unknown if deployed (9) Unknown
<ul> <li>37. Had Any Prior Maintenance/Service Been Performed On This Air Bag Syster (0) Not equipped/not available (1) No prior maintenance (2) Yes, prior maintenance (specify):</li> <li>(9) Unknown</li> </ul>	42. Were Air Bag Module Cover Flap(s) Damaged?  (0) Not equipped/not available  (1) No  (2) Yes (specify):  (3) Deployed, unknown if air bag module cover flap(s) damaged  (7) Not deployed
38. Air Bag Deployment Accident Event Sequence Number (00) Not equipped/not available Code the accident event sequent initiated the air bag decent (96) Deployed, unknown event (97) Not deployed (98) Unknown if deployed (99) Unknown	leployment (00) Not equipped/not available / / (01) Not damaged  Yes - Air Bag Damage (02) Ruptured (03) Cut
<ul> <li>39. CDC For Air Bag Deployment Impact <ul> <li>(0) Not equipped/not available</li> <li>(1) Highest delta V</li> <li>(2) Second highest delta V</li> <li>(3) Other non-coded delta V (specify):</li> </ul> </li> <li>(6) Deployed, unknown event</li> <li>(7) Not deployed</li> <li>(8) Unknown if deployed</li> <li>(9) Unknown</li> </ul>	(04) Torn (05) Holed (06) Burned (07) Abraded (88) Other damage (specify):  (95) Damaged, details unknown (96) Deployed, unknown if damaged (97) Not deployed (98) Unknown if deployed (99) Unknown

#### FIRST SEAT FRONTAL AIR BAG SYSTEM EVALUATION continued HEAD RESTRAINT AND SEAT EVALUATION 49. Head Restraint Type/Damage by Occupant 44. Source of Air Bag Damage at This Occupant Position (00) Not equipped/not available No head restraints (01) Not damaged Integral—no damage Integral—damaged during accident (1) (02) Object worn by occupant, (specify): (2) Adjustable—no damage Adjustable—damaged during accident (3) (03) Object carried by occupant, (specify): (4) (5) Add-on-no damage (04) Adaptive/assistive controls, (specify): (6) Add-on-damaged during accident (8) Other (specify): (05) Fire in vehicle (06) Thermal burns (9) Unknown (07) Rescue or emergency efforts (88) Other damage source (specify): 50. Seat Type (this Occupant Position) (00) Occupant not seated or no seat (95) Damaged, unknown source (01) Bucket (96) Deployed, unknown if damaged (02) Bucket with folding back (97) Not deployed (03) Bench (98) Unknown if deployed (04) Bench with separate back cushions (99) Unknown (05) Bench with folding back(s) (06) Split bench with separate back cushions (07) Split bench with folding back(s) (08) Pedestal (i.e., column supported) (09) Box mounted seat (i.e., van type) 45. Was The Air Bag Tethered? (0) Not equipped/not available (1) No (10) Other seat type (specify): (2) Yes (specify number of tether straps): (99) Unknown (3) Deployed, unknown if tethered (7) Not deployed (8) Unknown if deployed 51. Seat Orientation (this Occupant Position) (0) Occupant not seated or no seat (9) Unknown (1) Forward facing seat 46. Did The Air Bag Have Vent Ports? (2) Rear facing seat (0) Not equipped/not available (3) Side facing seat (inward) (1) No (4) Side facing seat (outward) (2) Yes (specify number of vent ports): (8) Other (specify): (3) Deployed, unknown if vent ports present (9) Unknown (7) Not deployed (8) Unknown if deployed 52. Seat Track Adjusted Position Prior To Impact (9) Unknown (0) Occupant not seated or no seat (1) Non-adjustable seat track 47. Was the Air Bag in this Occupant's Position **Contacted by Another Occupant?** Adjustable Seat Track (0) Not equipped/not available (2) Seat at forward most track position (1) No (3) Seat between forward most and middle track (2) Yes (specify): positions (4) Seat at middle track position (3) Deployed, unknown if other occupant contact to (5) Seat between middle and rear most track air bag positions (7) Not deployed (6) Seat at rear most track position (8) Unknown if deployed (9) Unknown (9) Unknown 48. Was This Occupant Wearing Eye-wear? (0) Not equipped/not available (1) No (2) Eyeglasses/sunglasses (3) Contact lenses (4) Deployed, unknown if eyewear worn (7) Not deployed (8) Unknown if deployed (9) Unknown

### HEAD RESTRAINT AND SEAT EVALUATION continued

- 53. Seat Back Incline Prior and Post Impact
  - (00) Occupant not seated or no seat
  - (01) Not adjustable

## Upright prior to impact

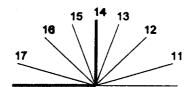
- (11) Moved to completely rearward position
- (12) Moved to rearward midrange position
- (13) Moved to slightly rearward position
- (14) Retained pre-impact position
- (15) Moved to slightly forward position
- (16) Moved to forward midrange position
- (17) Moved to completely forward position

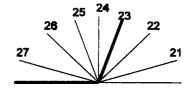
### Slightly reclined prior to impact

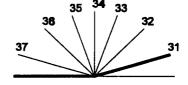
- (21) Moved to completely rearward position
- (22) Moved to rearward midrange position
- (23) Retained pre-impact position
- (24) Moved to upright position
- (25) Moved to slightly forward position
- (26) Moved to forward midrange position
- (27) Moved to completely forward position

## Completely reclined prior to impact

- (31) Retained pre-impact position
- (32) Moved to rearward midrange position
- (33) Moved to slightly rearward position
- (34) Moved to upright position
- (35) Moved to slightly forward position
- (36) Moved to forward midrange position
- (37) Moved to completely forward position
- (99) Unknown
- 54. Seat Performance (this Occupant Position)
  - (0) Occupant not seated or no seat
  - (1) No seat performance failure(s)
  - (2) Seat adjusters failed
  - (3) Seat back folding locks or "seat back" failed (specify):\_
  - (4) Seat track/anchors failed
  - (5) Deformed by impact of occupant
  - (6) Deformed by passenger compartment intrusion, (specify):\_\_\_\_\_
  - (7) Combination of above (specify):
  - (8) Other (specify):
  - (9) Unknown







# CHILD SAFETY SEAT 55. Child Safety Seat Make/Model (000) No child safety seat Applicable codes are found in your NASS CDS Data Collection, Coding and Editing 59. Child Safety Seat Shield Usage (950) Built-in child safety seat (997) Other make/model (specify): 60. Child Safety Seat Tether Usage (998) Unknown make/model (999) Unknown if child safety seat used 56. Type of Child Safety Seat (0) No child safety seat (1) Infant seat (2) Toddler seat (3) Convertible seat (4) Booster seat - with shield (5) Booster seat - without shield (7) Other type child safety seat (specify): (8) Unknown child safety seat type (9) Unknown if child safety seat used 57. Child Safety Seat Orientation (00) No child safety seat Designed for Rear Facing for This Age/Weight (01) Rear facing (02) Forward facing (08) Other orientation (specify): (09) Unknown orientation Designed For Forward Facing for This Age/Weight (11) Rear facing (12) Forward facing (18) Other orientation (specify): (19) Unknown orientation Unknown Design or Orientation For This Age/Weight, or Unknown Age/Weight (21) Rear facing (22) Forward facing (28) Other orientation (specify): (29) Unknown orientation (99) Unknown if child safety seat used

- \$ \$ \$ \$ \$ 58. Child Safety Seat Harness Usage

Note: Options below applicable to Variables OA58-OA60.

(00) No child safety seat

## Not Designed With Harness/Shield/Tether

- (01) After market harness/shield/tether added, not used
- (02) After market harness/shield/tether used
- (03) Child safety seat used, but no after market harness/shield/tether added
- (09) Unknown if harness/shield/tether added or used

### Designed With Harness/Shield/Tether

- (11) Harness/shield/tether not used
- (12) Harness/shield/tether used
- (19) Unknown if harness/shield/tether used

### Unknown If Designed With Harness/Shield/Tether

- (21) Harness/shield/tether not used
- (22) Harness/shield/tether used
- (29) Unknown if harness/shield/tether used
- (99) Unknown if child safety seat used

INJURY CONSEQUENCES	
61. Injury Severity (Police Rating)  (0) O - No injury (1) C - Possible injury (2) B - Nonincapacitating injury (3) A - Incapacitating injury (4) K - Killed (5) U - Injury, severity unknown (6) Died prior to accident (9) Unknown  62. Treatment - Mortality (0) No treatment (1) Fatal (2) Fatal - ruled disease (specify):  Nonfatal (3) Hospitalization (4) Transported and released (5) Treatment at scene - nontransported (6) Treatment later (7) Treatment - other (specify):	63. Type Of Medical Facility (for Initial Treatment) (0) Not treated at a medical facility (1) Trauma center (2) Hospital (3) Medical clinic (4) Physician's office (5) Treatment later at medical facility (8) Other (specify): (9) Unknown  64. Hospital Stay (00) Not Hospitalized  Code the number of days (up through 60) that the occupant stayed in hospital. (61) 61 days or more (99) Unknown  65. Working Days Lost  Code the number of days (up through 60) that the occupant lost from work due to the accident (00) No working days lost
(8) Transported to a medical facility-unknown if treated (9) Unknown	(61) 61 days or more (62) Fatally injured (97) Not working prior to accident (99) Unknown
99. Case Occupant (0) Not the Case Occupant (1) This is the Case Occupant (2) This is the Case Occupant in another case.	

**STOP WORK HERE** 

**VARIABLES 66-74** 

INJURY CONSEQUENCES	TRAUMA DATA
66. Time to Death  Code number of hours from time of accident to time of death up through 24 hours. If time of death is greater than 24 hours, code number of days. (Note: 1 day = 31, 2 days = 32, n days = 30 + n up through 30 days = 60)  (00) Not fatal  (96) Fatal - ruled disease  (99) Unknown	71. Glasgow Coma Scale (GCS) Score (at Medical Facility) (00) Not injured (01) Injured - not treated at medical facility (02) No GCS Score at medical facility (03-15) Code the actual value of the initial GCS Score recorded at medical facility. (97) Injured, details unknown (99) Unknown if injured
67. 1st Medically Reported Cause of Death 99	72. Was the Occupant Given Blood? (1) No - blood not given (2) Yes - blood given
68. 2nd Medically Reported Cause of Death  69. 3rd Medically Reported Cause of Death	(specify units):(9) Unknown if blood given
Code the Occupant Injury from line number(s) for the medically reported injury(s) which reportedly contributed to this occupant's death (00) Not fatal or no additional causes (96) Mode of death given but specific injuries are not linked to cause of death. (specify):	73. Arterial Blood Gases (ABG) – HCO <sub>3</sub> (00) Not injured (01) Injured, ABGs not measured or reported (02-50) Code the actual value of the HCO <sub>3</sub> (96) ABGs reported, HCO <sub>3</sub> unknown (97) Injured, details unknown (99) Unknown if injured
(97) Other result (includes fatal ruled disease) (specify):	BELT USE DETERMINATION
70. Number of Recorded Injuries for This Occupant  Code the actual number of injuries recorded for this occupant.  (00) No recorded injuries  (97) Injured, details unknown  (99) Unknown if injured	74. Primary Source of Belt Use Determination (0) Not equipped/not available/destroyed or rendered inoperative (1) Vehicle inspection (2) Official injury data (3) Driver/occupant interview (8) Other (specify):

# OCCUPANT ASSESSMENT FORM Form Approved O.M.B. No. 2127-0021

U.S. Department of T	ra
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National Highway Traffic Safety Administration	NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM
Primary Sampling Unit Number	OCCUPANT'S SEATING
2. Case Number - Stratum DS1 -95 -5P-Ø/3	10. Occupant's Seat Position $\frac{9}{2}$
3. Vehicle Number	Front Seat (11) Left side
4. Occupant Number	(12) Middle (13) Right side
OCCUPANT'S CHARACTERISTICS	(14) Other (specify):(15) On or in the lap of another occupant
5. Occupant's Age Code actual age at time of accident. (00) Less than one year old (specify by month):  (97) 97 years and older	Second Seat (21) Left side (22) Middle (23) Right side (24) Other (specify):
(99) Unknown	(25) On or in the lap of another occupant
6. Occupant's Sex (1) Male (2) Female-not reported pregnant (3) Female-pregnant-1st trimester(1st-3rd month) (4) Female-pregnant-2nd trimester(4th-6th month) (5) Female-pregnant-3rd trimester(7th-9th month) (6) Female-pregnant-term unknown	Third Seat (31) Left side (32) Middle (33) Right side (34) Other (specify): (35) On or in the lap of another occupant  Fourth Seat
(9) Unknown	(41) Left side
7. Occupant's Height Code actual height to the nearest centimeter.	(42) Middle (43) Right side (44) Other (specify): (45) On or in the lap of another occupant  (97) In or on unenclosed area
(999) Unknown	(98) Other seat (specify):
inches X 2.54 = centimeters	(99) Unknown
8. Occupant's Weight Code actual weight to the nearest kilogram. (999) Unknown	11. Occupant's Posture (0) Normal posture  Abnormal posture
pounds X .4536 =kilograms  9. Occupant's Role (1) Driver (2) Passenger (9) Unknown	(1) Kneeling or standing on seat (2) Lying on or across seat (3) Kneeling, standing or sitting in front of seat (4) Sitting sideways or turned to talk with another occupant or to look out a rear window (5) Sitting on a console (6) Lying back in a reclined seat position (7) Bracing with feet or hands on a surface in front of seat (8) Other abnormal posture (specify):

Valional Accident Sampling System-Crashworthiness Date		rage	
EJECTION/ENTRAPMENT			
12. Ejection (0) No ejection (1) Complete ejection (2) Partial ejection (3) Ejection, unknown degree (9) Unknown	15. Medium Status (Immediately Prior To Impact) (0) No ejection (1) Open (2) Closed (3) Integral structure (9) Unknown	\$	
13. Ejection Area  (0) No ejection (1) Windshield (2) Left front (3) Right front (4) Left rear (5) Right rear (6) Rear (7) Roof (8) Other area (e.g., back of pickup, etc.) (specify): (9) Unknown	16. Entrapment (0) Not entrapped/exit not inhibited (1) Entrapped/pinned - mechanically restrained (2) Could not exit vehicle due to jammed doors, etc. (specify): FIRE  (9) Unknown  17. Occupant Mobility (0) Occupant fatal before removed from vehicle (1) Removed from vehicle while unconscious or	<u>Ø</u>	
14. Ejection Medium  (0) No ejection  (1) Door/hatch/tailgate  (2) Nonfixed roof structure  (3) Fixed glazing  (4) Nonfixed glazing (specify):  (5) Integral structure  (8) Other medium (specify):  (9) Unknown	disoriented (2) Removed from vehicle due to injuries (3) Exited vehicle with some assistance (4) Exited vehicle under own power (5) Occupant fully ejected (9) Unknown		

	BELT S	SYSTE	M FUNCTION
18.	Manual (Active) Belt System Availability (0) None available (1) Belt removed/destroyed	9	22. Shoulder Belt Upper Anchorage Adjustment (0) No shoulder belt (1) No upper anchorage adjustment for shoulder belt
	(2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt (5) Belt available—type unknown		Adjustable shoulder Belt Upper Anchorage (2) In full up position (3) In mid position
	Integral Belt Partially Destroyed (6) Shoulder belt (lap belt destroyed/removed) (7) Lap belt (shoulder belt destroyed/removed)		(4) In full down position (5) Position unknown (9) Unknown if position has adjustable upper anchorage adjustment
	(8) Other belt (specify): (9) Unknown	-	23. Automatic (Passive) Belt System Availability/
19.	Manual (Active) Belt System Use (00) None used, not available, or belt removed/destroyed	-9	<ul> <li>(0) Not equipped/not available</li> <li>(1) 2 point automatic belts</li> <li>(2) 3 point automatic belts</li> <li>(3) Automatic belts - type unknown</li> </ul>
	(01) Inoperative (specify): (02) Shoulder belt (03) Lap belt (04) Lap and shoulder belt		Non-functional (4) Automatic belts destroyed or rendered inoperative (9) Unknown
	(05) Belt used—type unknown (08) Other belt used (specify):		24. Automatic (Passive) Belt System Use (0) Not equipped/not available/destroyed or rendered inoperative (1) Automatic belt in use
	<ul> <li>(12) Shoulder belt used with child safety seat</li> <li>(13) Lap belt used with child safety seat</li> <li>(14) Lap and shoulder belt used with child safety seat</li> </ul>		(2) Automatic belt not in use (manually disconnected, motorized track inoperative) (specify):
	(15) Belt used with child safety seat—type unknow (18) Other belt used with child safety seat (specify):	wn	(3) Automátic belt use unknown (9) Unknown  25. Automatic (Passive) Belt System Type
20.	(99) Unknown if belt used Proper Use of Manual (Active) Belts	9	(0) Not equipped/not available (1) Non-motorized system (2) Motorized system
	<ul><li>(0) None used or not available</li><li>(1) Belt used properly</li><li>(2) Belt used properly with child safety seat</li></ul>		(9) Unknown  26. Proper Use of Automatic (Passive) Belt System (1) Net agricultured (Passive)
	Belt Used Improperly (3) Shoulder belt worn under arm (4) Shoulder belt worn behind back or seat (5) Belt worn around more than one person	:	(0) Not equipped/not available/not used (1) Automatic belt used properly (2) Automatic belt used properly with child safety seat
	<ul> <li>(5) Belt worn around more than one person</li> <li>(6) Lap belt worn on abdomen</li> <li>(7) Lap belt or lap and shoulder belt used improperly with child safety seat (specify):</li> </ul>		Automatic Belt Used Improperly (3) Automatic shoulder belt worn under arm (4) Automatic shoulder belt worn behind back (5) Automatic belt worn around more than
	(8) Other improper use of manual belt system (specify):		one person (6) Lap portion of automatic belt worn on abdomen
21	(9) Unknown  Manual (Active) Belt Failure Modes	9	(7) Automatic lap and shoulder belt or automatic shoulder belt used improperly
۷۱.	During Accident (0) No manual belt used or not available	<del></del>	with child safety seat (specify):  (8) Other improper use of automatic belt system
	<ul><li>(1) No manual belt failure(s)</li><li>(2) Torn webbing (stretched webbing not included)</li></ul>		(specify):(9) Unknown
	<ul><li>(3) Broken buckle or latchplate</li><li>(4) Upper anchorage separated</li><li>(5) Other anchorage separated (specify):</li></ul>		27. Automatic (Passive) Belt Failure Modes During Accident (0) Not equipped/not available/not in use (1) No automatic belt failure(s)
	(6) Broken retractor (7) Combination of above (specify):		<ul> <li>(2) Torn webbing (stretched webbing not included)</li> <li>(3) Broken buckle or latchplate</li> <li>(4) Upper anchorage separated</li> </ul>
	(8) Other manual belt failure (specify):		(5) Other anchorage separated (specify):
	(9) Unknown		<ul><li>(6) Broken retractor</li><li>(7) Combination of above (specify):</li><li>(8) Other automatic belt failure (specify):</li></ul>
			(9) Unknown

POLICE REPORTED RESTRAINT USE	AIR BAG SYSTEM FUNCTION
28. Police Reported Belt Use  (0) None used (1) Police did not indicate belt use (2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt (5) Belt used, type not specified (6) Child safety seat (7) Automatic belt (8) Other type belt, (specify):	30. Frontal Air Bag System Availability/Function (This Occupant Position) (0) Not equipped/not available (1) Air bag  Non-functional (2) Air bag disconnected (specify):  (3) Air bag not reinstalled (9) Unknown
(9) Police indicated "unknown"  29. Police Reported Air Bag Availability/Function (0) No air bag available (1) Police did not indicate air bag availability/function (2) Deployed (3) Not deployed (4) Unknown if deployed (9) Police indicated "unknown"	31. Frontal Air Bag System Deployment (This Occupant Position) (0) Not equipped/not available (1) Deployed during accident (as a result of impact) (2) Deployed inadvertently just prior to accident (3) Deployed, details unknown (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (5) Unknown if deployed (7) Nondeployed (9) Unknown
Check the Primary Source Used In Determining Belt Use.  [ ] Not equipped/not available/destroyed or rendered inoperative [ ] Vehicle inspection [ ] Official injury data [ ] Driver/occupant interview [ ] Other (specify):	32. Other Than First Seat Frontal Air Bag Availability/Function (This Occupant Position) (0) Not equipped/not available (1) Air bag  Non-functional (2) Air bag disconnected (specify):  (3) Air bag not reinstalled (9) Unknown Specify type of "other" air bag present:
	33. Air Bag(s) Deployment, Other Than First Seat Frontal (This Occupant Position) (0) Not equipped with an "other" air bag (1) Deployed during accident (as a result of impact) (2) Deployed inadvertently just prior to accident (3) Deployed, details unknown (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (5) Unknown if deployed (7) Nondeployed (9) Unknown
	34. Are There Indications of Air Bag System Failure? (This Occupant Position) (0) Not equipped/not available (1) No (2) Yes (specify):  (9) Unknown

FIRST SEAT FRONTAL AIR	BAG SYSTEM EVALUATION
35. Had Vehicle Been in Previous Accident(s)?  (0) Not equipped/not available (1) No previous accidents  Yes (2) Previous accident(s) without deployment(s) (3) One previous accident with deployment (4) More than one previous accident with at least one deployment (8) Previous accidents, unknown deployment status (9) Unknown	40. Longitudinal Component of Delta V For Air Bag Deployment Impact (-000) Not equipped/not available Code the value of the delta V for the impact that initiated the air bag deployment (-996) Deployment, unknown longitudinal Delta V (-997) Not deployed (-998) Unknown if deployed (-999) Unknown
36. Type of Air Bag  (0) Not equipped/not available  (1) Original manufacturer installed system  (2) Retrofitted air bag  (3) Replacement air bag  (8) Unknown type of air bag  (9) Unknown	41. Did Air Bag Module Cover Flap(s) Open At Designated Tear Points?  (0) Not equipped/not available (1) No (2) Yes (3) Deployed, unknown if flap(s) opened at designated tear points (7) Not deployed (8) Unknown if deployed (9) Unknown
37. Had Any Prior Maintenance/Service Been Performed On This Air Bag System?  (0) Not equipped/not available (1) No prior maintenance (2) Yes, prior maintenance (specify):  (9) Unknown	42. Were Air Bag Module Cover Flap(s) Damaged?  (0) Not equipped/not available  (1) No  (2) Yes (specify):  (3) Deployed, unknown if air bag module cover flap(s) damaged  (7) Not deployed
38. Air Bag Deployment Accident Event Sequence Number (00) Not equipped/not available Code the accident event sequence number that initiated the air bag deployment (96) Deployed, unknown event (97) Not deployed (98) Unknown if deployed (99) Unknown	(8) Unknown if deployed (9) Unknown  43. Was There Damage To The Air Bag? (00) Not equipped/not available (01) Not damaged  Yes - Air Bag Damage (02) Ruptured (03) Cut
39. CDC For Air Bag Deployment Impact (0) Not equipped/not available (1) Highest delta V (2) Second highest delta V (3) Other non-coded delta V (specify):  (6) Deployed, unknown event (7) Not deployed (8) Unknown if deployed (9) Unknown	(04) Torn (05) Holed (06) Burned (07) Abraded (88) Other damage (specify):  (95) Damaged, details unknown (96) Deployed, unknown if damaged (97) Not deployed (98) Unknown if deployed (99) Unknown

(9) Unknown

## HEAD RESTRAINT AND SEAT EVALUATION continued

- 53. Seat Back Incline Prior and Post Impact (00) Occupant not seated or no seat
- \$ /

(01) Not adjustable

## Upright prior to impact

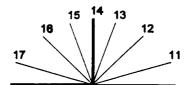
- (11) Moved to completely rearward position
- (12) Moved to rearward midrange position
- (13) Moved to slightly rearward position
- (14) Retained pre-impact position
- (15) Moved to slightly forward position
- (16) Moved to forward midrange position
- (17) Moved to completely forward position

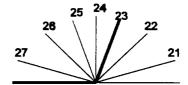
### Slightly reclined prior to impact

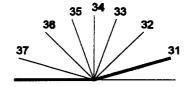
- (21) Moved to completely rearward position
- (22) Moved to rearward midrange position
- (23) Retained pre-impact position
- (24) Moved to upright position
- (25) Moved to slightly forward position
- (26) Moved to forward midrange position
- (27) Moved to completely forward position

## Completely reclined prior to impact

- (31) Retained pre-impact position
- (32) Moved to rearward midrange position
- (33) Moved to slightly rearward position
- (34) Moved to upright position
- (35) Moved to slightly forward position
- (36) Moved to forward midrange position
- (37) Moved to completely forward position
- (99) Unknown
- 54. Seat Performance (this Occupant Position)
  - (0) Occupant not seated or no seat
  - (1) No seat performance failure(s)
  - (2) Seat adjusters failed
  - (3) Seat back folding locks or "seat back" failed (specify):
  - (4) Seat track/anchors failed
  - (5) Deformed by impact of occupant
  - (6) Deformed by passenger compartment intrusion, (specify):
  - (7) Combination of above (specify):
  - (8) Other (specify):
  - (9) Unknown







# CHILD SAFETY SEAT 55. Child Safety Seat Make/Model (000) No child safety seat Applicable codes are found in your NASS CDS Data Collection, Coding and Editing (950) Built-in child safety seat (997) Other make/model (specify): (998) Unknown make/model (999) Unknown if child safety seat used 56. Type of Child Safety Seat (0) No child safety seat (1) Infant seat (2) Toddler seat (3) Convertible seat (4) Booster seat - with shield (5) Booster seat - without shield (7) Other type child safety seat (specify): (8) Unknown child safety seat type (9) Unknown if child safety seat used 57. Child Safety Seat Orientation (00) No child safety seat Designed for Rear Facing for This Age/Weight (01) Rear facing (02) Forward facing (08) Other orientation (specify): (09) Unknown orientation Designed For Forward Facing for This Age/Weight (11) Rear facing (12) Forward facing (18) Other orientation (specify): (19) Unknown orientation Unknown Design or Orientation For This Age/Weight, or Unknown Age/Weight (21) Rear facing (22) Forward facing (28) Other orientation (specify): (29) Unknown orientation (99) Unknown if child safety seat used

- 58. Child Safety Seat Harness Usage
- 59. Child Safety Seat Shield Usage



60. Child Safety Seat Tether Usage

女女 人

Note: Options below applicable to Variables OA58-OA60.

(00) No child safety seat

## Not Designed With Harness/Shield/Tether

- (01) After market harness/shield/tether added, not used
- (02) After market harness/shield/tether used
- (03) Child safety seat used, but no after market harness/shield/tether added
- (09) Unknown if harness/shield/tether added or used

## Designed With Harness/Shield/Tether

- (11) Harness/shield/tether not used
- (12) Harness/shield/tether used
- (19) Unknown if harness/shield/tether used

## Unknown If Designed With Harness/Shield/Tether

- (21) Harness/shield/tether not used
- (22) Harness/shield/tether used
- (29) Unknown if harness/shield/tether used
- (99) Unknown if child safety seat used

INJURY CONSEQUENCES	
(0) O - No injury (1) C - Possible injury (2) B - Nonincapacitating injury (3) A - Incapacitating injury (4) K - Killed (5) U - Injury, severity unknown (6) Died prior to accident (9) Unknown  62. Treatment - Mortality (0) No treatment (1) Fatal (2) Fatal - ruled disease (specify):  Nonfatal (3) Hospitalization (4) Transported and released (5) Treatment at scene - nontransported (6) Treatment later (7) Treatment - other (specify):  (8) Transported to a medical facility-unknown if treated (9) Unknown	63. Type Of Medical Facility (for Initial Treatment) (0) Not treated at a medical facility (1) Trauma center (2) Hospital (3) Medical clinic (4) Physician's office (5) Treatment later at medical facility (8) Other (specify): (9) Unknown  64. Hospital Stay (00) Not HospitalizedCode the number of days (up through 60) that the occupant stayed in hospital. (61) 61 days or more (99) Unknown  65. Working Days LostCode the number of days (up through 60) that the occupant lost from work due to the accident (00) No working days lost (61) 61 days or more (62) Fatally injured (97) Not working prior to accident (99) Unknown
99. Case Occupant (0) Not the Case Occupant (1) This is the Case Occupant (2) This is the Case Occupant in another case.	

**STOP WORK HERE** 

**VARIABLES 66-74** 

	INJURY CONSEQUENCES	TRAUMA DATA
66.	Time to Death  Code number of hours from time of accident to time of death up through 24 hours. If time of death is greater than 24 hours, code number of days. (Note: 1 day = 31, 2 days = 32, n days = 30 +n up through 30 days = 60)  Not fatal  (96) Fatal - ruled disease  (99) Unknown	71. Glasgow Coma Scale (GCS) Score (at Medical Facility) (00) Not injured (01) Injured - not treated at medical facility (02) No GCS Score at medical facility (03-15) Code the actual value of the initial GCS Score recorded at medical facility. (97) Injured, details unknown (99) Unknown if injured
	1st Medically Reported Cause of Death 999	72. Was the Occupant Given Blood?  (1) No - blood not given  (2) Yes - blood given  (specify units):
	2nd Medically Reported Cause of Death 7 9	(9) Unknown if blood given
69.	3rd Medically Reported Cause of DeathCode the Occupant Injury from line number(s) for the medically reported injury(s) which reportedly contributed to this occupant's death (00) Not fatal or no additional causes (96) Mode of death given but specific injuries are not linked to cause of death. (specify):	73. Arterial Blood Gases (ABG) – HCO <sub>3</sub> (00) Not injured (01) Injured, ABGs not measured or reported (02-50) Code the actual value of the HCO <sub>3</sub> (96) ABGs reported, HCO <sub>3</sub> unknown (97) Injured, details unknown (99) Unknown if injured
	(97) Other result (includes fatal ruled disease) (specify):	BELT USE BETERMINIATION
		BELT USE DETERMINATION
70.	Number of Recorded Injuries for This OccupantCode the actual number of injuries recorded for this occupant. (00) No recorded injuries (97) Injured, details unknown (99) Unknown if injured	74. Primary Source of Belt Use Determination (0) Not equipped/not available/destroyed or rendered inoperative (1) Vehicle inspection (2) Official injury data (3) Driver/occupant interview (8) Other (specify): (9) Unknown if belt used
	,	



NATIONAL ACCIDENT SAMPLING SYSTEM National Highway Traffic Safety <u>Administration</u> CRASHWORTHINESS DATA SYSTEM OCCUPANT'S SEATING 1. Primary Sampling Unit Number DS1-95-5P-013 2. Case Number - Stratum 10. Occupant's Seat Position Front Seat 3. Vehicle Number (11) Left side (12) Middle 4. Occupant Number (13) Right side (14) Other (specify): OCCUPANT'S CHARACTERISTICS (15) On or in the lap of another occupant 5. Occupant's Age Second Seat Code actual age at time of accident. (21) Left side (00) Less than one year old (specify by month): (22) Middle (23) Right side (97) 97 years and older (24) Other (specify): (99) Unknown (25) On or in the lap of another occupant Third Seat ス 6. Occupant's Sex (31) Left side (1) Male (32) Middle (2) Female-not reported pregnant (33) Right side (3) Female-pregnant-1st trimester(1st-3rd month) (34) Other (specify):\_ (4) Female-pregnant-2nd trimester(4th-6th month) (35) On or in the lap of another occupant (5) Female-pregnant-3rd trimester(7th-9th month) (6) Female-pregnant-term unknown Fourth Seat (9) Unknown (41) Left side (42) Middle (43) Right side (44) Other (specify): 7. Occupant's Height (45) On or in the lap of another occupant Code actual height to the nearest centimeter. (97) In or on unenclosed area (999) Unknown (98) Other seat (specify): (99) Unknown inches X 2.54 = \_\_\_ centimeters 8. Occupant's Weight Code actual weight to the nearest 11. Occupant's Posture kilogram. (0) Normal posture (999) Unknown Abnormal posture \_\_\_ pounds X .4536 = \_\_\_ kilograms (1) Kneeling or standing on seat (2) Lying on or across seat(3) Kneeling, standing or sitting in front of seat 9. Occupant's Role (4) Sitting sideways or turned to talk with another (1) Driver occupant or to look out a rear window (2) Passenger Sitting on a console (9) Unknown Lying back in a reclined seat position (7) Bracing with feet or hands on a surface in front of seat (8) Other abnormal posture (specify): (9) Unknown

FJECTION	ENTRAPMENT
12. Ejection (0) No ejection (1) Complete ejection (2) Partial ejection (3) Ejection, unknown degree (9) Unknown	15. Medium Status (Immediately Prior To Impact) (0) No ejection (1) Open (2) Closed (3) Integral structure (9) Unknown
13. Ejection Area  (0) No ejection (1) Windshield (2) Left front (3) Right front (4) Left rear (5) Right rear (6) Rear (7) Roof (8) Other area (e.g., back of pickup, etc.) (specify): (9) Unknown	16. Entrapment (0) Not entrapped/exit not inhibited (1) Entrapped/pinned - mechanically restrained (2) Could not exit vehicle due to jammed doors, fire, etc. (specify): FIRE  (9) Unknown  17. Occupant Mobility (0) Occupant fatal before removed from vehicle
14. Ejection Medium (0) No ejection (1) Door/hatch/tailgate (2) Nonfixed roof structure (3) Fixed glazing (4) Nonfixed glazing (specify):  (5) Integral structure (8) Other medium (specify):	<ul> <li>(1) Removed from vehicle while unconscious or disoriented</li> <li>(2) Removed from vehicle due to injuries</li> <li>(3) Exited vehicle with some assistance</li> <li>(4) Exited vehicle under own power</li> <li>(5) Occupant fully ejected</li> <li>(9) Unknown</li> </ul>

		BELT	SYSIE	ANI FV	UNCTION	
18	(0)		9	1 (	Shoulder Belt Upper Anchorage Adjustment (0) No shoulder belt	9_
	(1) (2)			/	(1) No upper anchorage adjustment for shoulder t	belt
	(3)	Lap belt			Adjustable shoulder Belt Upper Anchorage	
	(4) (5)	Lap and shoulder belt Belt available—type unknown		1 (	(2) In full up position (3) In mid position	
		••		1 (	(4) In full down position	
	Inte (6)	egral Belt Partially Destroyed Shoulder belt (lap belt destroyed/removed)	1		(5) Position unknown (9) Unknown if position has adjustable upper	
	(7)	Lap beit (shoulder beit destroyed/removed)		,	anchorage adjustment	,
	(8)	Other belt (specify):	,	23.	Automatic (Passive) Belt System Availability/	d
	(9)	Unknown	- ,	) F	Function	*
19	Ma	nual (Active) Belt System Use	9	1 (	(0) Not equipped/not available (1) 2 point automatic belts	
		None used, not available, or belt		1 5	(2) 3 point automatic belts (3) Automatic belts - type unknown	
	(01	removed/destroyed ) Inoperative (specify):	'	1		
			- '		Non-functional (4) Automatic belts destroyed or rendered	
	(03)	) Shoulder belt ) Lap belt	,	1	inoperative	,
	(04)	) Lap and shoulder belt	,		(9) Unknown Automatic (Passive) Belt System Use	1
	(08)	) Belt used—type unknown ) Other belt used (specify):	,	1 27. (	(0) Not equipped/not available/destroyed or	4
			. !	1 (	rendered inoperative (1) Automatic belt in use	
	(13)	) Shoulder belt used with child safety seat ) Lap belt used with child safety seat	J	1 (	(2) Automatic belt not in use (manually	
	(14)	) Lap and shoulder belt used with child	J	1	disconnected, motorized track inoperative) (specify):	
	(15)	safety seat ) Belt used with child safety seat—type unknov	wn !	<b>1 §</b>	(3) Automátic belt use unknown (9) Unknown	
	(18)	) Other belt used with child safety seat	1	1 .	•	A
	(99)	(specify): Unknown if belt used	/	25. (	Automatic (Passive) Belt System Type  O) Not equipped/not available	4
<b>ე</b> ტ	, ,	per Use of Manual (Active) Belts	91	I (1	Non-motorized system     Motorized system	•
<b>2</b> .	(0)	None used or not available	<del>/-</del>	1 (7	9) Unknown	1
	(1)	Belt used properly Belt used properly with child safety seat	J	26. P	Proper Use of Automatic (Passive)	<u> </u>
		•		1 8	Belt System  0) Not equipped/not available/not used	7
	Belt	Used Improperly Shoulder belt worn under arm	- 1	1 3.	Not equipped/not available/not used     Automatic belt used properly     Automatic belt used properly with	
	(4)	Shoulder belt worn behind back or seat	J	1	child safety seat	
	(5)	Belt worn around more than one person	I	م ا	Automatic Belt Used Improperly	
	(7)	Lap belt worn on abdomen Lap belt or lap and shoulder belt used	j	[ (3	Automatic shoulder belt worn under arm	
	•	improperly with child safety seat (specify):	- 1		4) Automatic shoulder belt worn behind back 5) Automatic belt worn around more than	
		Other improper use of manual belt system	1		one person	
		(specify):	- 1		6) Lap portion of automatic belt worn on abdomen	
	(9)	Unknown		(/	7) Automatic lap and shoulder belt or	
21.	Man	iual (Active) Belt Failure Modes	9	i	automatic shoulder belt used improperly	
	Durir	ng Accident	<del></del>	,	with child safety seat (specify):	
		No manual belt used or not available No manual belt failure(s)		(8	Other improper use of automatic belt system (specify):	
	(2)	Torn webbing (stretched webbing not	- 1	(9	(specify): 9) Unknown	
	j	included) Broken buckle or latchplate		•		A
(	(4)	Upper anchorage separated	1	Du	utomatic (Passive) Belt Failure Modes  puring Accident	4
		Other anchorage separated (specify):	]	(0)	Not equipped/not available/not in use	
		Broken retractor		(2	No automatic belt failure(s) Torn webbing (stretched webbing not included) Broken buckle or latchplate	
1		Combination of above (specify):	- 1	(3°	B) Broken buckle or latchplate b) Upper anchorage separated	
f	(8)	Other manual belt failure (specify):		(5)	Other anchorage separated (specify):	
1	( <del>-</del> 8) (	Unknown	1	(6°	) Broken retractor ) Combination of above (specify): ) Other automatic belt failure (specify):	•
					,	
			1	(9)	) Unknown	

POLICE REPORTED RESTRAINT USE	AIR BAG SYSTEM FUNCTION
28. Police Reported Belt Use  (0) None used (1) Police did not indicate belt use (2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt (5) Belt used, type not specified (6) Child safety seat (7) Automatic belt (8) Other type belt, (specify):	30. Frontal Air Bag System Availability/Function (This Occupant Position) (0) Not equipped/not available (1) Air bag  Non-functional (2) Air bag disconnected (specify):  (3) Air bag not reinstalled (9) Unknown  31. Frontal Air Bag System Deployment
29. Police Reported Air Bag Availability/Function (0) No air bag available (1) Police did not indicate air bag availability/function (2) Deployed (3) Not deployed (4) Unknown if deployed (9) Police indicated "unknown"	<ul> <li>(This Occupant Position)</li> <li>(0) Not equipped/not available</li> <li>(1) Deployed during accident (as a result of impact)</li> <li>(2) Deployed inadvertently just prior to accident</li> <li>(3) Deployed, details unknown</li> <li>(4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical)</li> <li>(5) Unknown if deployed</li> <li>(7) Nondeployed</li> <li>(9) Unknown</li> </ul>
Check the Primary Source Used In Determining Belt Use.  [ ] Not equipped/not available/destroyed or rendered inoperative [ ] Vehicle inspection [ ] Official injury data [ ] Driver/occupant interview [ ] Other (specify):	32. Other Than First Seat Frontal Air Bag Availability/Function (This Occupant Position) (0) Not equipped/not available (1) Air bag  Non-functional (2) Air bag disconnected (specify):  (3) Air bag not reinstalled (9) Unknown Specify type of "other" air bag present:
( V Unknown if beit used	33. Air Bag(s) Deployment, Other Than First Seat Frontal (This Occupant Position) (0) Not equipped with an "other" air bag (1) Deployed during accident (as a result of impact) (2) Deployed inadvertently just prior to accident (3) Deployed, details unknown (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (5) Unknown if deployed (7) Nondeployed (9) Unknown  34. Are There Indications of Air Bag System Failure? (This Occupant Position) (0) Not equipped/not available (1) No (2) Yes (specify):
	(9) Unknown

FIRST SEAT FRONTAL A	AIR BAG SYSTEM EVALUATION
35. Had Vehicle Been in Previous Accident(s)? (0) Not equipped/not available (1) No previous accidents  Yes (2) Previous accident(s) without deployment(s) (3) One previous accident with deployment (4) More than one previous accident with at least one deployment (8) Previous accidents, unknown deployment status (9) Unknown	40. Longitudinal Component of Delta V For Air Bag Deployment Impact (-000) Not equipped/not available Code the value of the delta V for the impact that initiated the air bag deployment (-996) Deployment, unknown longitudinal Delta V (-997) Not deployed (-998) Unknown if deployed (-999) Unknown
36. Type of Air Bag  (0) Not equipped/not available  (1) Original manufacturer installed system  (2) Retrofitted air bag  (3) Replacement air bag  (8) Unknown type of air bag  (9) Unknown	41. Did Air Bag Module Cover Flap(s) Open At Designated Tear Points? (0) Not equipped/not available (1) No (2) Yes (3) Deployed, unknown if flap(s) opened at designated tear points (7) Not deployed (8) Unknown if deployed (9) Unknown
37. Had Any Prior Maintenance/Service Been Performed On This Air Bag System?  (0) Not equipped/not available (1) No prior maintenance (2) Yes, prior maintenance (specify):  (9) Unknown  38. Air Bag Deployment Accident Event Sequence Number  (00) Not equipped/not available  Code the accident event sequence number that initiated the air bag deployment  (96) Deployed, unknown event	42. Were Air Bag Module Cover Flap(s) Damaged?  (0) Not equipped/not available  (1) No  (2) Yes (specify):  (3) Deployed, unknown if air bag module cover flap(s) damaged  (7) Not deployed  (8) Unknown if deployed  (9) Unknown
(97) Not deployed (98) Unknown if deployed (99) Unknown  39. CDC For Air Bag Deployment Impact (0) Not equipped/not available (1) Highest delta V (2) Second highest delta V (3) Other non-coded delta V (specify):  (6) Deployed, unknown event (7) Not deployed (8) Unknown if deployed (9) Unknown	Yes - Air Bag Damage (02) Ruptured (03) Cut (04) Torn (05) Holed (06) Burned (07) Abraded (88) Other damage (specify):  (95) Damaged, details unknown (96) Deployed, unknown if damaged (97) Not deployed (98) Unknown if deployed (99) Unknown

	FIRST SEAT FRONTAL AIR BAG SYSTEM EVALUATION continued	HEAD RESTRAINT AND SEAT EVALUATION
44	Source of Air Bag Damage (00) Not equipped/not available (01) Not damaged (02) Object worn by occupant, (specify):  (03) Object carried by occupant, (specify):  (04) Adaptive/assistive controls, (specify):  (05) Fire in vehicle (06) Thermal burns (07) Rescue or emergency efforts (08) Other damage source (specify):  (95) Damaged, unknown source (96) Deployed, unknown if damaged (97) Not deployed (98) Unknown (99) Unknown	49. Head Restraint Type/Damage by Occupant at This Occupant Position  (0) No head restraints (1) Integral—no damage (2) Integral—damaged during accident (3) Adjustable—no damage (4) Adjustable—damaged during accident (5) Add-on—no damage (6) Add-on—damaged during accident (8) Other (specify):  (9) Unknown  50. Seat Type (this Occupant Position) (00) Occupant not seated or no seat (01) Bucket (02) Bucket with folding back (03) Bench (04) Bench with separate back cushions (05) Bench with separate back cushions
45.	Was The Air Bag Tethered? (0) Not equipped/not available (1) No (2) Yes (specify number of tether straps):  (3) Deployed, unknown if tethered (7) Not deployed (8) Unknown if deployed (9) Unknown	(06) Split bench with separate back cushions (07) Split bench with folding back(s) (08) Pedestal (i.e., column supported) (09) Box mounted seat (i.e., van type) (10) Other seat type (specify):  (99) Unknown  51. Seat Orientation (this Occupant Position) (0) Occupant not seated or no seat
	Did The Air Bag Have Vent Ports?  (0) Not equipped/not available (1) No (2) Yes (specify number of vent ports):  (3) Deployed, unknown if vent ports present (7) Not deployed (8) Unknown if deployed (9) Unknown	(1) Forward facing seat (2) Rear facing seat (3) Side facing seat (inward) (4) Side facing seat (outward) (8) Other (specify):  (9) Unknown  52. Seat Track Adjusted Position Prior To Impact (0) Occupant not seated or no seat
	Was the Air Bag in this Occupant's Position Contacted by Another Occupant? (0) Not equipped/not available (1) No (2) Yes (specify):  Deployed, unknown if other occupant contact to air bag (7) Not deployed (8) Unknown if deployed (9) Unknown	<ul> <li>(1) Non-adjustable seat track</li> <li>Adjustable Seat Track</li> <li>(2) Seat at forward most track position</li> <li>(3) Seat between forward most and middle track positions</li> <li>(4) Seat at middle track position</li> <li>(5) Seat between middle and rear most track positions</li> <li>(6) Seat at rear most track position</li> <li>(9) Unknown</li> </ul>
	Was This Occupant Wearing Eye-wear? (0) Not equipped/not available (1) No (2) Eyeglasses/sunglasses (3) Contact lenses (4) Deployed, unknown if eyewear worn (7) Not deployed (8) Unknown if deployed (9) Unknown	

### HEAD RESTRAINT AND SEAT EVALUATION continued

### 53. Seat Back Incline Prior and Post Impact

- (00) Occupant not seated or no seat
- (01) Not adjustable

### Upright prior to impact

- (11) Moved to completely rearward position
- (12) Moved to rearward midrange position
- (13) Moved to slightly rearward position
- (14) Retained pre-impact position
- (15) Moved to slightly forward position
- (16) Moved to forward midrange position
- (17) Moved to completely forward position

### Slightly reclined prior to impact

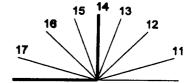
- (21) Moved to completely rearward position
- (22) Moved to rearward midrange position
- (23) Retained pre-impact position
- (24) Moved to upright position
- (25) Moved to slightly forward position
- (26) Moved to forward midrange position
- (27) Moved to completely forward position

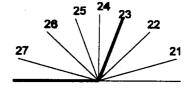
### Completely reclined prior to impact

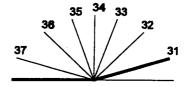
- (31) Retained pre-impact position
- (32) Moved to rearward midrange position
- (33) Moved to slightly rearward position
- (34) Moved to upright position
- (35) Moved to slightly forward position
- (36) Moved to forward midrange position
- (37) Moved to completely forward position
- (99) Unknown

### 54. Seat Performance (this Occupant Position)

- (0) Occupant not seated or no seat
- (1) No seat performance failure(s)
- (2) Seat adjusters failed
- (3) Seat back folding locks or "seat back" failed (specify):
- (4) Seat track/anchors failed
- (5) Deformed by impact of occupant
- (6) Deformed by passenger compartment intrusion, (specify):\_\_\_\_\_
- (7) Combination of above (specify):
- (8) Other (specify):
- (9) Unknown







		CHILD SAF	ETY SEAT
55.	Child Safety Seat Make/Model (000) No child safety seat	\$ \$ \$ \$	58. Child Sa
	Applicable codes are found in your N Data Collection, Coding and Editing (950) Built-in child safety seat	IASS CDS	59. Child Sa
	(997) Other make/model (specify):  (998) Unknown make/model		60. Child Sat
	(999) Unknown if child safety seat us	sed	Note: Op Variables
56.	Type of Child Safety Seat (0) No child safety seat (1) Infant seat	4	(00) No Not Desig
	(2) Toddler seat (3) Convertible seat		(01) After add
	<ul> <li>(4) Booster seat - with shield</li> <li>(5) Booster seat - without shield</li> <li>(7) Other type shill pefet peet (area)</li> </ul>	.:e.s.	(02) Afte (03) Chi
	(7) Other type child safety seat (spec		har (09) Unl add
	(9) Unknown if child safety seat used	and the	Designed (11) Har
	Child Safety Seat Orientation (00) No child safety seat	49	(12) Har (19) Unk
	<i>Designed for Rear Facing for This Ag</i> (01) Rear facing (02) Forward facing	e/Weight	<i>Unknown</i> (21) Har
	(08) Other orientation (specify):		(22) Har (29) Unk
	(09) Unknown orientation	A 44/	(99) Unk
(	<i>Designed For Forward Facing for This</i> (11) Rear facing (12) Forward facing	; Age/vveignt	
	(18) Other orientation (specify):  (19) Unknown orientation	<del></del>	
	Unknown Design or Orientation For Ti	his	
(	Age/Weight, or Unknown Age/Weight 21) Rear facing 22) Forward facing		
	28) Other orientation (specify):		
•	<ul><li>29) Unknown orientation</li><li>99) Unknown if child safety seat used</li></ul>		
(	oo, onknown ii oniiu salety seat uset	u	

- 58. Child Safety Seat Harness Usage
- 4 7
- 59. Child Safety Seat Shield Usage
- \$6
- 60. Child Safety Seat Tether Usage

\$ p

Note: Options below applicable to Variables OA58-OA60.

(00) No child safety seat

### Not Designed With Harness/Shield/Tether

- (01) After market harness/shield/tether added, not used
- (02) After market harness/shield/tether used
- (03) Child safety seat used, but no after market harness/shield/tether added
- (09) Unknown if harness/shield/tether added or used

### Designed With Harness/Shield/Tether

- (11) Harness/shield/tether not used
- (12) Harness/shield/tether used
- (19) Unknown if harness/shield/tether used

### Unknown If Designed With Harness/Shield/Tether

- (21) Harness/shield/tether not used
- (22) Harness/shield/tether used
- (29) Unknown if harness/shield/tether used
- (99) Unknown if child safety seat used

INJURY CONSEQUENCES	
61. Injury Severity (Police Rating)  (0) O - No injury (1) C - Possible injury (2) B - Nonincapacitating injury (3) A - Incapacitating injury (4) K - Killed (5) U - Injury, severity unknown (6) Died prior to accident (9) Unknown  62. Treatment - Mortality (0) No treatment (1) Fatal (2) Fatal - ruled disease (specify):   Nonfatal (3) Hospitalization (4) Transported and released (5) Treatment at scene - nontransported (6) Treatment later (7) Treatment - other (specify):  (8) Transported to a medical facility-unknown if treated (9) Unknown	63. Type Of Medical Facility (for Initial Treatment) (0) Not treated at a medical facility (1) Trauma center (2) Hospital (3) Medical clinic (4) Physician's office (5) Treatment later at medical facility (8) Other (specify): (9) Unknown  64. Hospital Stay (00) Not HospitalizedCode the number of days (up through 60) that the occupant stayed in hospital. (61) 61 days or more (99) Unknown  65. Working Days LostCode the number of days (up through 60) that the occupant lost from work due to the accident (00) No working days lost (61) 61 days or more (62) Fatally injured (97) Not working prior to accident (99) Unknown
99. Case Occupant (0) Not the Case Occupant (1) This is the Case Occupant (2) This is the Case Occupant in another case.	

**STOP WORK HERE** 

**VARIABLES 66-74** 

INJURY CONSEQUENCES	TRAUMA DATA
Code number of hours from time of accident to time of death up through 24 hours. If time of death is greater than 24 hours, code number of days. (Note: 1 day = 31, 2 days = 32, n days = 30 +n up through 30 days = 60)  (00) Not fatal  (96) Fatal - ruled disease  (99) Unknown	71. Glasgow Coma Scale (GCS) Score (at Medical Facility) (00) Not injured (01) Injured - not treated at medical facility (02) No GCS Score at medical facility (03-15) Code the actual value of the initial GCS Score recorded at medical facility. (97) Injured, details unknown (99) Unknown if injured
67. 1st Medically Reported Cause of Death  68. 2nd Medically Reported Cause of Death  69. 3rd Medically Reported Cause of Death	72. Was the Occupant Given Blood?  (1) No - blood not given  (2) Yes - blood given  (specify units):  (9) Unknown if blood given
69. 3rd Medically Reported Cause of Death  Code the Occupant Injury from line number(s) for the medically reported injury(s) which reportedly contributed to this occupant's death  (00) Not fatal or no additional causes  (96) Mode of death given but specific injuries are not linked to cause of death. (specify):	73. Arterial Blood Gases (ABG) – HCO <sub>3</sub> (00) Not injured (01) Injured, ABGs not measured or reported (02-50) Code the actual value of the HCO <sub>3</sub> (96) ABGs reported, HCO <sub>3</sub> unknown (97) Injured, details unknown (99) Unknown if injured
(97) Other result (includes fatal ruled disease) (specify):	BELT USE DETERMINATION
disease) (specify):  (99) Unknown  70. Number of Recorded Injuries for This OccupantCode the actual number of injuries recorded for this occupant.  (00) No recorded injuries (97) Injured, details unknown (99) Unknown if injured	74. Primary Source of Belt Use Determination (0) Not equipped/not available/destroyed or rendered inoperative (1) Vehicle inspection (2) Official injury data (3) Driver/occupant interview (8) Other (specify):

National Highway Traffic Safety Administration	NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM
Primary Sampling Unit Number	OCCUPANT'S SEATING
2. Case Number - Stratum DS/-95-5P-0/3	10. Occupant's Seat Position 9 9
3. Vehicle Number	Front Seat (11) Left side
4. Occupant Number $\cancel{\phi}$ $\cancel{G}$	(12) Middle (13) Right side
OCCUPANT'S CHARACTERISTICS	(14) Other (specify): (15) On or in the lap of another occupant
5. Occupant's Age Code actual age at time of accident. (00) Less than one year old (specify by month):	Second Seat (21) Left side (22) Middle
(97) 97 years and older (99) Unknown	(23) Right side (24) Other (specify): (25) On or in the lap of another occupant
6. Occupant's Sex (1) Male (2) Female-not reported pregnant (3) Female-pregnant-1st trimester(1st-3rd month) (4) Female-pregnant-2nd trimester(4th-6th month) (5) Female-pregnant-3rd trimester(7th-9th month) (6) Female-pregnant-term unknown (9) Unknown	Third Seat (31) Left side (32) Middle (33) Right side (34) Other (specify): (35) On or in the lap of another occupant  Fourth Seat (41) Left side (42) Middle
7. Occupant's Height Code actual height to the nearest centimeter. (999) Unknowninches X 2.54 = centimeters	(43) Right side (44) Other (specify): (45) On or in the lap of another occupant  (97) In or on unenclosed area (98) Other seat (specify): (99) Unknown
8. Occupant's Weight Code actual weight to the nearest kilogram. (999) Unknown pounds X .4536 = kilograms	11. Occupant's Posture (0) Normal posture  Abnormal posture (1) Kneeling or standing on seat
9. Occupant's Role (1) Driver (2) Passenger (9) Unknown	<ul> <li>(2) Lying on or across seat</li> <li>(3) Kneeling, standing or sitting in front of seat</li> <li>(4) Sitting sideways or turned to talk with another occupant or to look out a rear window</li> <li>(5) Sitting on a console</li> <li>(6) Lying back in a reclined seat position</li> <li>(7) Bracing with feet or hands on a surface in front of seat</li> <li>(8) Other abnormal posture (specify):</li> <li>(9) Unknown</li> </ul>

Vational Accident Sampling System-Stashworthine			Page
EJECTION/ENTRAPMENT			
12. Ejection (0) No ejection (1) Complete ejection (2) Partial ejection (3) Ejection, unknown degree (9) Unknown	<b>Ø</b> 1	<ul> <li>15. Medium Status (Immediately Prior To Impact)</li> <li>(0) No ejection</li> <li>(1) Open</li> <li>(2) Closed</li> <li>(3) Integral structure</li> <li>(9) Unknown</li> </ul>	1
13. Ejection Area  (0) No ejection (1) Windshield (2) Left front (3) Right front (4) Left rear (5) Right rear (6) Rear (7) Roof (8) Other area (e.g., back of pickup, etc.) (specify): (9) Unknown	<del>-</del>	16. Entrapment (0) Not entrapped/exit not inhibited (1) Entrapped/pinned - mechanically restrained (2) Could not exit vehicle due to jammed doors, etc. (specify): FIRE  (9) Unknown  17. Occupant Mobility (0) Occupant fatal before removed from vehicle	gire,
14. Ejection Medium (0) No ejection (1) Door/hatch/tailgate (2) Nonfixed roof structure (3) Fixed glazing (4) Nonfixed glazing (specify):  (5) Integral structure (8) Other medium (specify):	<u>D</u>	<ul> <li>(1) Removed from vehicle while unconscious or disoriented</li> <li>(2) Removed from vehicle due to injuries</li> <li>(3) Exited vehicle with some assistance</li> <li>(4) Exited vehicle under own power</li> <li>(5) Occupant fully ejected</li> <li>(9) Unknown</li> </ul>	

	BELT SYS	STEM FUNCTION
18.	3. Manual (Active) Belt System Availability (0) None available (1) Belt removed/destroyed (2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt	22. Shoulder Belt Upper Anchorage Adjustment (0) No shoulder belt (1) No upper anchorage adjustment for shoulder belt  Adjustable shoulder Belt Upper Anchorage (2) In full up position
	(4) Lap and shoulder belt (5) Belt available—type unknown  Integral Belt Partially Destroyed (6) Shoulder belt (lap belt destroyed/removed) (7) Lap belt (shoulder belt destroyed/removed) (8) Other belt (specify):	(3) In mid position (4) In full down position (5) Position unknown (9) Unknown if position has adjustable upper anchorage adjustment
	(9) Unknown	23. Automatic (Passive) Belt System Availability/ Function (0) Not equipped/not available
19.	Manual (Active) Belt System Use (00) None used, not available, or belt removed/destroyed (01) Inoperative (specify):	(1) 2 point automatic belts (2) 3 point automatic belts (3) Automatic belts - type unknown
	(02) Shoulder belt (03) Lap belt (04) Lap and shoulder belt (05) Belt used—type unknown (08) Other belt used (specify):	Non-functional (4) Automatic belts destroyed or rendered inoperative (9) Unknown  24. Automatic (Passive) Belt System Use (0) Not equipped/not available/destroyed or
	<ul> <li>(12) Shoulder belt used with child safety seat</li> <li>(13) Lap belt used with child safety seat</li> <li>(14) Lap and shoulder belt used with child safety seat</li> </ul>	rendered inoperative (1) Automatic belt in use (2) Automatic belt not in use (manually disconnected, motorized track inoperative) (specify): (3) Automatic belt use unknown
	<ul> <li>(15) Belt used with child safety seat—type unknown</li> <li>(18) Other belt used with child safety seat (specify): </li> <li>(99) Unknown if belt used</li> </ul>	(9) Unknown  25. Automatic (Passive) Belt System Type (0) Not equipped/not available (1) Non-motorized system
1	Proper Use of Manual (Active) Belts (0) None used or not available (1) Belt used properly (2) Belt used properly with child safety seat	
(	Belt Used Improperly  (3) Shoulder belt worn under arm  (4) Shoulder belt worn behind back or seat  (5) Belt worn around more than one person  (6) Lap belt worn on abdomen  (7) Lap belt or lap and shoulder belt used improperly with child safety seat (specify):	(0) Not equipped/not available/not used (1) Automatic belt used properly (2) Automatic belt used properly with child safety seat  Automatic Belt Used Improperly (3) Automatic shoulder belt worn under arm (4) Automatic shoulder belt worn behind back
	improperly with child safety seat (specify):  (8) Other improper use of manual belt system (specify):	<ul> <li>(5) Automatic belt worn around more than one person</li> <li>(6) Lap portion of automatic belt worn on abdomen</li> </ul>
`	(9) Unknown	(7) Automatic lap and shoulder belt or automatic shoulder belt used improperly
( ) (	Manual (Active) Belt Failure Modes During Accident (0) No manual belt used or not available (1) No manual belt failure(s) (2) Torn webbing (stretched webbing not included)	with child safety seat (specify):  (8) Other improper use of automatic belt system (specify):  (9) Unknown
(	<ul> <li>(3) Broken buckle or latchplate</li> <li>(4) Upper anchorage separated</li> <li>(5) Other anchorage separated (specify):</li> </ul>	27. Automatic (Passive) Belt Failure Modes During Accident (0) Not equipped/not available/not in use (1) No automatic belt failure(s)
(	(6) Broken retractor (7) Combination of above (specify): (8) Other manual belt failure (specify):	<ul> <li>(2) Torn webbing (stretched webbing not included)</li> <li>(3) Broken buckle or latchplate</li> <li>(4) Upper anchorage separated</li> <li>(5) Other anchorage separated (specify):</li> </ul>
	(8) Other manual belt failure (specify):  (9) Unknown	(6) Broken retractor (7) Combination of above (specify):
		(8) Other automatic belt failure (specify):  (9) Unknown

POLICE REPORTED RESTRAINT USE	AIR BAG SYSTEM FUNCTION
28. Police Reported Belt Use  (0) None used (1) Police did not indicate belt use (2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt (5) Belt used, type not specified (6) Child safety seat (7) Automatic belt (8) Other type belt, (specify):	30. Frontal Air Bag System Availability/Function (This Occupant Position) (0) Not equipped/not available (1) Air bag  Non-functional (2) Air bag disconnected (specify):  (3) Air bag not reinstalled (9) Unknown
(9) Police indicated "unknown"  29. Police Reported Air Bag Availability/Function (0) No air bag available (1) Police did not indicate air bag availability/function (2) Deployed (3) Not deployed (4) Unknown if deployed (9) Police indicated "unknown"	(3) Deployed, details unknown (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (5) Unknown if deployed (7) Nondeployed (9) Unknown
Check the Primary Source Used In Determining Belt Use.  [ ] Not equipped/not available/destroyed or rendered inoperative [ ] Vehicle inspection [ ] Official injury data [ ] Driver/occupant interview [ ] Other (specify):	32. Other Than First Seat Frontal Air Bag Availability/Function (This Occupant Position) (0) Not equipped/not available (1) Air bag  Non-functional (2) Air bag disconnected (specify):  (3) Air bag not reinstalled (9) Unknown Specify type of "other" air bag present:
1.	<ul> <li>33. Air Bag(s) Deployment, Other Than First Seat Frontal (This Occupant Position)</li> <li>(0) Not equipped with an "other" air bag</li> <li>(1) Deployed during accident (as a result of impact)</li> <li>(2) Deployed inadvertently just prior to accident</li> <li>(3) Deployed, details unknown</li> <li>(4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical)</li> <li>(5) Unknown if deployed</li> <li>(7) Nondeployed</li> <li>(9) Unknown</li> <li>34. Are There Indications of Air Bag System Failure?</li> <li>(This Occupant Position)</li> <li>(0) Not equipped/not available</li> <li>(1) No</li> <li>(2) Yes (specify):</li> </ul>
	(9) Unknown

FIRST SEAT FRONTAL AIR	R BAG SYSTEM EVALUATION
<ul> <li>35. Had Vehicle Been in Previous Accident(s)? <ul> <li>(0) Not equipped/not available</li> <li>(1) No previous accidents</li> </ul> </li> <li>Yes <ul> <li>(2) Previous accident(s) without deployment(s)</li> <li>(3) One previous accident with deployment</li> <li>(4) More than one previous accident with at least one deployment</li> <li>(8) Previous accidents, unknown deployment status</li> <li>(9) Unknown</li> </ul> </li> </ul>	40. Longitudinal Component of Delta V For Air Bag Deployment Impact (-000) Not equipped/not available Code the value of the delta V for the impact that initiated the air bag deployment (-996) Deployment, unknown longitudinal Delta V (-997) Not deployed (-998) Unknown if deployed (-999) Unknown
36. Type of Air Bag (0) Not equipped/not available (1) Original manufacturer installed system (2) Retrofitted air bag (3) Replacement air bag (8) Unknown type of air bag (9) Unknown	41. Did Air Bag Module Cover Flap(s) Open At Designated Tear Points? (0) Not equipped/not available (1) No (2) Yes (3) Deployed, unknown if flap(s) opened at designated tear points (7) Not deployed (8) Unknown if deployed (9) Unknown
37. Had Any Prior Maintenance/Service Been Performed On This Air Bag System?  (0) Not equipped/not available (1) No prior maintenance (2) Yes, prior maintenance (specify):  (9) Unknown	42. Were Air Bag Module Cover Flap(s) Damaged?  (0) Not equipped/not available  (1) No  (2) Yes (specify):  (3) Deployed, unknown if air bag module cover flap(s) damaged  (7) Not deployed  (8) Unknown if deployed
38. Air Bag Deployment Accident Event Sequence Number (00) Not equipped/not available Code the accident event sequence number that initiated the air bag deployment (96) Deployed, unknown event (97) Not deployed (98) Unknown if deployed (99) Unknown	(9) Unknown  43. Was There Damage To The Air Bag? (00) Not equipped/not available (01) Not damaged  Yes - Air Bag Damage (02) Ruptured (03) Cut (04) Torn
39. CDC For Air Bag Deployment Impact (0) Not equipped/not available (1) Highest delta V (2) Second highest delta V (3) Other non-coded delta V (specify):  (6) Deployed, unknown event (7) Not deployed (8) Unknown if deployed (9) Unknown	(05) Holed (06) Burned (07) Abraded (88) Other damage (specify):  (95) Damaged, details unknown (96) Deployed, unknown if damaged (97) Not deployed (98) Unknown if deployed (99) Unknown

	FIRST SEAT FRONTAL AIR BAG SYSTEM EVALUATION continued	HEAD RESTRAINT AND SEAT EVALUATION
44	Source of Air Bag Damage (00) Not equipped/not available (01) Not damaged (02) Object worn by occupant, (specify):  (03) Object carried by occupant, (specify):  (04) Adaptive/assistive controls, (specify):  (05) Fire in vehicle (06) Thermal burns (07) Rescue or emergency efforts (08) Other damage source (specify):  (95) Damaged, unknown source (96) Deployed, unknown if damaged (97) Not deployed (98) Unknown if deployed (99) Unknown	49. Head Restraint Type/Damage by Occupant at This Occupant Position (0) No head restraints (1) Integral—no damage (2) Integral—damaged during accident (3) Adjustable—no damage (4) Adjustable—damaged during accident (5) Add-on—no damage (6) Add-on—damaged during accident (8) Other (specify):  (9) Unknown  50. Seat Type (this Occupant Position) (00) Occupant not seated or no seat (01) Bucket (02) Bucket with folding back (03) Bench (04) Bench with separate back cushions (05) Bench with folding back(s)
<b>45</b> .	Was The Air Bag Tethered? (0) Not equipped/not available (1) No (2) Yes (specify number of tether straps):  (3) Deployed, unknown if tethered	(06) Split bench with separate back cushions (07) Split bench with folding back(s) (08) Pedestal (i.e., column supported) (09) Box mounted seat (i.e., van type) (10) Other seat type (specify):  (99) Unknown
	(7) Not deployed (8) Unknown if deployed (9) Unknown  Did The Air Bag Have Vent Ports? (0) Not equipped/not available (1) No (2) Yes (specify number of vent ports):	51. Seat Orientation (this Occupant Position) (0) Occupant not seated or no seat (1) Forward facing seat (2) Rear facing seat (3) Side facing seat (inward) (4) Side facing seat (outward) (8) Other (specify):
<b>1</b> 7.	(3) Deployed, unknown if vent ports present (7) Not deployed (8) Unknown if deployed (9) Unknown  Was the Air Bag in this Occupant's Position Contacted by Another Occupant? (0) Not equipped/not available (1) No (2) Yes (specify):	(9) Unknown  52. Seat Track Adjusted Position Prior To Impact (0) Occupant not seated or no seat (1) Non-adjustable seat track  Adjustable Seat Track (2) Seat at forward most track position (3) Seat between forward most and middle track positions
8. 1 (	(3) Deployed, unknown if other occupant contact to air bag (7) Not deployed (8) Unknown if deployed (9) Unknown  Was This Occupant Wearing Eye-wear? (0) Not equipped/not available (1) No (2) Eyeglasses/sunglasses (3) Contact lenses (4) Deployed, unknown if eyewear worn	<ul> <li>(4) Seat at middle track position</li> <li>(5) Seat between middle and rear most track positions</li> <li>(6) Seat at rear most track position</li> <li>(9) Unknown</li> </ul>
(	7) Not deployed 8) Unknown if deployed 9) Unknown	

### HEAD RESTRAINT AND SEAT EVALUATION continued

### 53. Seat Back Incline Prior and Post Impact

(00) Occupant not seated or no seat



(01) Not adjustable

### Upright prior to impact

- (11) Moved to completely rearward position
- (12) Moved to rearward midrange position
- (13) Moved to slightly rearward position
- (14) Retained pre-impact position
- (15) Moved to slightly forward position
- (16) Moved to forward midrange position
- (17) Moved to completely forward position

### Slightly reclined prior to impact

- (21) Moved to completely rearward position
- (22) Moved to rearward midrange position
- (23) Retained pre-impact position
- (24) Moved to upright position
- (25) Moved to slightly forward position
- (26) Moved to forward midrange position
- (27) Moved to completely forward position

### Completely reclined prior to impact

- (31) Retained pre-impact position
- (32) Moved to rearward midrange position
- (33) Moved to slightly rearward position
- (34) Moved to upright position
- (35) Moved to slightly forward position
- (36) Moved to forward midrange position
- (37) Moved to completely forward position
- (99) Unknown

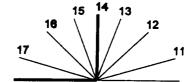
### 54. Seat Performance (this Occupant Position)

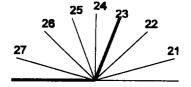
- (0) Occupant not seated or no seat
- (1) No seat performance failure(s)
- (2) Seat adjusters failed
- (3) Seat back folding locks or "seat back" failed (specify):\_\_\_\_\_
- (4) Seat track/anchors failed
- (5) Deformed by impact of occupant
- (6) Deformed by passenger compartment intrusion, (specify):\_\_\_\_\_

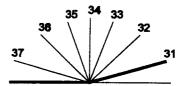
(7)	Combin	ation o	f above	(specify)
-----	--------	---------	---------	-----------

8)	Other (specify):	 
•	` ' //	

(9) Unknown







DD DD

		CHILD SAF	FETY SEAT
55.	Child Safety Seat Make/Model (000) No child safety seat	\$ \$ \$ \$	58. Child Sa
	Applicable codes are found in your I Data Collection, Coding and Editing (950) Built-in child safety seat	NASS CDS	59. Child Sai
	(997) Other make/model (specify):  (998) Unknown make/model		60. Child Sat
	(999) Unknown if child safety seat u	ısed /	Note: Op Variables
56.	Type of Child Safety Seat  (0) No child safety seat	9	(00) No
	<ul><li>(1) Infant seat</li><li>(2) Toddler seat</li><li>(3) Convertible seat</li></ul>		Not Desig (01) Afte
	(4) Booster seat - with shield (5) Booster seat - without shield		add (02) Afte (03) Chi
	(7) Other type child safety seat (spe	cify):	(09) Uni
	<ul><li>(8) Unknown child safety seat type</li><li>(9) Unknown if child safety seat used</li></ul>	d	add
57.	Child Safety Seat Orientation	do	<i>Designed</i> (11) Har (12) Har
	(00) No child safety seat	7-7	(19) Unk
	Designed for Rear Facing for This Ag (01) Rear facing	je∕Weight	<i>Unknown</i> (21) Har
	(02) Forward facing (08) Other orientation (specify):		(22) Har (29) Unk
	(09) Unknown orientation		(99) Unk
1	Designed For Forward Facing for Thi (11)   Rear facing	s Age/Weight	
	(12) Forward facing (18) Other orientation (specify):		
	(19) Unknown orientation		
	Unknown Design or Orientation For T	This I	
,	Age/Weight, or Unknown Age/Weight		
	21) Rear facing 22) Forward facing		
	28) Other orientation (specify):		
(	29) Unknown orientation		
(	99) Unknown if child safety seat use	ed	

- 58. Child Safety Seat Harness Usage
- 59. Child Safety Seat Shield Usage
- 60. Child Safety Seat Tether Usage

Note: Options below applicable to Variables OA58-OA60.

(00) No child safety seat

Not Designed With Harness/Shield/Tether

- (01) After market harness/shield/tether added, not used
- (02) After market harness/shield/tether used
- (03) Child safety seat used, but no after market harness/shield/tether added
- (09) Unknown if harness/shield/tether added or used

Designed With Hamess/Shield/Tether

- (11) Harness/shield/tether not used
- (12) Harness/shield/tether used
- (19) Unknown if harness/shield/tether used

Unknown If Designed With Harness/Shield/Tether

- (21) Harness/shield/tether not used
- (22) Harness/shield/tether used
- (29) Unknown if harness/shield/tether used
- (99) Unknown if child safety seat used

INJURY CONSEQUENCES		
61. Injury Severity (Police Rating)  (0) O - No injury (1) C - Possible injury (2) B - Nonincapacitating injury (3) A - Incapacitating injury (4) K - Killed (5) U - Injury, severity unknown (6) Died prior to accident (9) Unknown	4	63. Type Of Medical Facility (for Initial Treatment) (0) Not treated at a medical facility (1) Trauma center (2) Hospital (3) Medical clinic (4) Physician's office (5) Treatment later at medical facility (8) Other (specify):
(0) No treatment (1) Fatal (2) Fatal - ruled disease (specify):  Nonfatal (3) Hospitalization (4) Transported and released (5) Treatment at scene - nontransported (6) Treatment later (7) Treatment - other (specify):  (8) Transported to a medical facility-unknown if treated (9) Unknown		64. Hospital Stay (00) Not HospitalizedCode the number of days (up through 60) that the occupant stayed in hospital. (61) 61 days or more (99) Unknown  65. Working Days LostCode the number of days (up through 60) that the occupant lost from work due to the accident (00) No working days lost (61) 61 days or more (62) Fatally injured (97) Not working prior to accident (99) Unknown
99. Case Occupant (0) Not the Case Occupant (1) This is the Case Occupant (2) This is the Case Occupant in another case.		

**STOP WORK HERE** 

**VARIABLES 66-74** 

INJURY CONSEQUENCES  TRAUMA DATA  66. Time to Death  Code number of hours from time of accident to time of death up through 24  TRAUMA DATA  71. Glasgow Coma Scale (GCS) Score (at Medical Facility) (00) Not injured	_
Code number of hours from time of (at Medical Facility)  accident to time of death up through 24 (00) Not injured	
hours. If time of death is greater than 24 hours, code number of days. (Note: 1 day = 31, 2 days = 32, n days = 30 +n up through 30 days = 60) (00) Not fatal (96) Fatal - ruled disease (99) Unknown  (01) Injured - not treated at medical facility (02) No GCS Score at medical facility (03-15) Code the actual value of the initial GCS Score at medical facility (105) No GCS Score at medical facility (106) No GCS Score at medical facility (107) Injured - not treated at medical facility (108) No GCS Score at medical facility (109) No GCS Score at medical facility	core
72. Was the Occupant Given Blood? (1) No - blood not given (2) Yes - blood given (3) Yes - blood given (4) Yes - blood given (5) Yes - blood given (6) Yes - blood given (7) Yes - blood given (8) Yes - blood given (9) Unknown if blood given (9) Unknown if blood given  73. Arterial Blood Gases (ABG) – HCO <sub>3</sub> (1) No - blood not given (2) Yes - blood given (9) Unknown if blood given (9) Unknown if blood given  73. Arterial Blood Gases (ABG) – HCO <sub>3</sub> (1) No - blood not given (2) Yes - blood given (3) Yes - blood given (5) Unknown if blood given  74. Was the Occupant Given Blood? (1) No - blood not given (2) Yes - blood given (3) Unknown if blood given (9) Unknown if blood given (1) No - blood not given (2) Yes - blood given (3) Yes - blood given (5) Unknown if blood given (6) ABGs not measured or reported (6) ABGs reported , HCO <sub>3</sub> unknown (97) Injured, details unknown (97) Injured, details unknown (98) Unknown if injured	1
(97) Other result (includes fatal ruled disease) (specify):  BELT USE DETERMINATION	
70. Number of Recorded Injuries for This Occupant Code the actual number of injuries recorded for this occupant.  (00) No recorded injuries (97) Injured, details unknown (99) Unknown if injured  74. Primary Source of Belt Use Determination (0) Not equipped/not available/destroyed or rendered inoperative (1) Vehicle inspection (2) Official injury data (3) Driver/occupant interview (8) Other (specify): (9) Unknown if belt used	9

### GENERAL VEHICLE FORM

NATIONAL ACCIDENT SAMPLING SYSTEM

National Highway Traffic Safety Administration	GENERAL VI	EHICLE FORM NATIONAL ACCIDENT SAMPLICASHWORTHINESS DA	NG SYST
Primary Sampling Unit Number     Case Number - Stratum     Vehicle Number	51-95-5P-\$13 \$2	12. Speed Limit (000) No statutory limit	9
VEHICLE IDENTIFIC  4. Vehicle Model Year Code the last two digits of the mod (99) Unknown  5. Vehicle Make (specify): TOYOTA Applicable codes are found in your	9 1 4 9	5 5 mph x 1.6093 = Ø 8 9 kmph  13. Police Reported Alcohol Presence For Driver (0) No alcohol present (1) Yes alcohol present (7) Not reported (8) No driver present (9) Unknown	1_
NASS Data Collection, Coding and Editing Manual. (99) Unknown  6. Vehicle Model (specify):  CELICA GTS  Applicable codes are found in your NASS Data Collection, Coding and Editing Manual. (999) Unknown	<u>\$33</u>	14. Alcohol Test Result For Driver Code actual value (decimal implied before first digit—0.xx) (95) Test refused (96) None given (97) AC test performed, results unknown (98) No driver present (99) Unknown  Source: PAR	_7_
<ul> <li>7. Body Type Note: Applicable codes may be fourthe back of this page.</li> <li>8. Vehicle Identification Number</li> <li>Tastastastastastastastastastastastastasta</li></ul>	and on 12 13 14 15 16 17	15. Police Reported Other Drug Presence For Driver  (0) No other drug(s) present (1) Yes other drug(s) present (7) Not reported (8) No driver present (9) Unknown  16. Other Drug Specimen Test Result For Driver (0) No specimen test given (1) Drug(s) not found in specimen (2) Drug(s) found in specimen, (specify):	9
9. Vehicle Special Use (This Trip) (0) No special use (1) Taxi (2) Vehicle used as school bus (3) Vehicle used as other bus (4) Military (5) Police (6) Ambulance (7) Fire truck or car (8) Other (specify): (9) Unknown	<u>φ</u>	(3) Specimen test given, results unknown obtained (8) No driver present (9) Unknown if specimen test given  17. Driver's Zip Code  (00001) Driver not a resident of U.S. or territories Code actual 5-digit zip code (99998) No driver present (99999) Unknown	or not
<ul> <li>10. Police Reported Vehicle Disposition (0) Not towed due to vehicle damage (1) Towed due to vehicle damage (9) Unknown</li> <li>11. Police Reported Travel Speed Code to the nearest kmph (NOTE: (less than 0.5 kmph) (160) 159.5 kmph and above (999) Unknownmph X 1.6093 =kmph</li> </ul>	ge	18. Driver's Race/Ethnic Origin (1) White (non-Hispanic) (2) Black (non-Hispanic) (3) White (Hispanic) (4) Black (Hispanic) (5) American Indian, Eskimo or Aleut (6) Asian or Pacific Islander (7) Other (specify):  (8) No driver present (9) Unknown	1

### **CODES FOR BODY TYPE**

#### CDS APPLICABLE VEHICLES

#### **Automobiles**

- (01) Convertible (excludes sun-roof, t-bar)
- (02) 2-door sedan, hardtop, coupe
- (03) 3-door/2-door hatchback
- (04) 4-door sedan, hardtop
- (05) 5-door/4-door hatchback
- (06) Station wagon (excluding van and truck based)
- (07) Hatchback, number of doors unknown
- (08) Other automobile type (specify):
- (09) Unknown automobile type

#### Automobile Derivatives

- (10) Auto based pickup (includes El Camino, Caballero, Ranchero, Brat, and Rabbit pickup)
- (11) Auto based panel (cargo station wagon, auto based ambulance/hearse)
- (12) Large limousine more than four side doors or stretched chassis
- (13) Three-wheel automobile or automobile derivative

#### Utility Vehicles (≤ 4,500 kgs GVWR)

- (14) Compact utility (Jeep CJ-2 CJ-7, Scrambler, Golden Eagle, Renegade, Laredo, Wrangler, Cherokee [84 and after], Dispatcher, Raider, Bronco II, Bronco [76 and before], Explorer, S-10 Blazer, Geo Tracker, Bravada, S-15 Jimmy, Thing, Pathfinder, Trooper, Trooper II, Rodeo, Amigo, Navajo, 4-Runner, Montero, Passport, Samurai, Sidekick, Rocky)
- (15) Large utility (includes Jeep Cherokee [83 and before], Ramcharger, Trailduster, Bronco-fullsize [78 and after], fullsize Blazer, fullsize Jimmy, Hummer, Landcruiser, Rover, Scout, Yukon)
- (16) Utility station wagon (Chevy Suburban, GMC Suburban, Travelall, Grand Wagoneer, includes suburban limousine)
- (19) Utility, unknown body type

#### Van Based Light Trucks (≤ 4,500 kgs GVWR)

- (20) Minivan (Town and Country, Caravan, Grand Caravan, Voyager, Grand Voyager, Mini-Ram, Vista, Aerostar, Windstar, Villager, Lumina APV, Trans Sport, Silhouette, Astro, Safari, Toyota Van, Toyota Minivan, Previa, Nissan Minivan, Quest, Mitsubishi Minivan, Expo Wagon, Vanagon/Camper.)
- (21) Large van (B150-B350, Sportsman, Royal, Maxiwagon, Ram, Tradesman, Voyager [83 and before], E150-E350, Econoline, Clubwagon, Chateau, G10-G30, Chevy Van, Beauville, Sport Van, G15-G35, Rally Van, Vandura.)
- (22) Step van or walk-in van (≤ 4,500 kgs GVWR)
- (23) Van based motorhome (≤ 4,500 kgs GVWR)
- (24) Van based school bus (≤ 4,500 kgs GVWR)
- (25) Van based other bus (≤ 4,500 kgs GVWR)
- (28) Other van type (Hi-Cube Van, Kary) (specify):
- (29) Unknown van type

#### Light Conventional Trucks (Pickup style cab, ≤ 4,500 kgs GVWR)

- (30) Compact pickup (D50, Colt P/U, Ram 50, Dakota, Arrow Pickup [foreign], Ranger, Courier, S-10, T-10, LUV, S-15, T-15, Sonoma, Datsun/Nissan Pickup, P'up, Mazda Pickup, Toyota Pickup, Mitsubishi Pickup)
- (31) Large Pickup (Jeep Pickup, Comanche, Ram Pickup, D100-D350, W100-W350, F100-F350, C10-C35, K10-K35, R10-R35, V10-V35, Silverado, Sierra, R100-R500, T100)

- (32) Pickup with slide-in camper
- (33) Convertible pickup
- (39) Unknown pickup style light conventional truck type

#### Other Light Trucks (≤ 4,500 kgs GVWR)

- (40) Cab chassis based (includes rescue vehicles, light stake, dump, and tow truck)
- (41) Truck based panel
- (42) Light truck based motorhome (chassis mounted)
- (45) Other light conventional truck type
- (48) Unknown light truck type
- (49) Unknown light vehicle type (automobile, utility, van, or light truck)

#### OTHER VEHICLES

#### Buses (Excludes Van Based)

- (50) School bus (designed to carry students, not cross country or transit)
- (58) Other bus type (e.g., transit, intercity, bus based motorhome) (specify):
- (59) Unknown bus type

#### Medium/Heavy Trucks (> 4,500 kgs GVWR)

- (60) Step van (> 4,500 kgs GVWR)
- (61) Single unit straight truck (4,500 kgs < GVWR ≤ 8,850 kgs)
- (62) Single unit straight truck (8,850 kgs < GVWR ≤ 12,000 kgs)
- (63) Single unit straight truck (> 12,000 kgs GVWR)
- (64) Single unit straight truck, GVWR unknown
- (65) Medium/heavy truck based motorhome
- (67) Truck-tractor with no cargo trailer
- (68) Truck-tractor pulling one trailer
- (69) Truck-tractor pulling two or more trailers
- (70) Truck-tractor (unknown if pulling trailer)
- (78) Unknown medium/heavy truck type
- (79) Unknown truck type (light/medium/heavy)

# Motored Cycles (Does Not Include All-Terrain Vehicles/Cycles)

- (80) Motorcycle
- (81) Moped (motorized bicycle)
- (82) Three-wheel motorcycle or moped
- (88) Other motored cycle (minibike, motorscooter) (specify):\_\_\_\_
- (89) Unknown motored cycle type

#### Other Vehicles

- (90) ATV (All-Terrain Vehicle) and ATC (All-Terrain Cycle)
- (91) Snowmobile
- (92) Farm equipment other than trucks
- (93) Construction equipment other than trucks
- (97) Other vehicle type
- (99) Unknown body type

	PRECRASH ENVIRONMENTAL DATA	25 Deadway Surface Condition	1
	5 5	25. Roadway Surface Condition (1) Dry	
19.	Relation To Interchange Or Junction	(2) Wet	
	(0) Non-interchange area and non-junction	(3) Snow or slush	
	(1) Interchange area related	(4) Ice	
	Non-Interchange junctions	(5) Sand, dirt, or oil	
	(2) Intersection related	(8) Other (specify):	
	(3) Driveway, alley access related	(9) Unknown	
	(4) Other junction (specify)		_
		26. Light Conditions	3
	(5) Unknown type of junction	(1) Daylight	
	(0) 11-line	(2) Dark	
	(9) Unknown	(3) Dark, but lighted	
		(4) Dawn	
20	Trafficway Flow	(5) Dusk	
_0.	(0) Not physically divided (two way traffic)	(9) Unknown	
	(1) Divided trafficway-median strip without positive		,
	barrier	27. Atmospheric Conditions	ch
	(2) Divided trafficway-median strip with positive barrier	(0) No adverse atmospheric-related driving	7
	(3) One way traffic	conditions	
	(9) Unknown	(1) Rain	
	_	(2) Sleet/hail	
21.	Number Of Travel Lanes 5	(3) Snow	
	(1) One	(4) Fog	
	(2) Two	(5) Rain and fog	
	(3) Three	(6) Sleet and fog	
	(4) Four	(7) Other (e.g., smog, smoke, blowing sand or etc.) (specify):	
	(5) Five	etc.) (specify):(9) Unknown	<del></del>
	(6) Six (7) Seven or more		
	(9) Unknown	28. Traffic Control Device	5
	(6)	(0) No traffic control(s)	
22	Dondway Alimana and	(1) Traffic control signal (not RR crossing)	
	Roadway Alignment (1) Straight		
	(1) Straight (2) Curve right	Regulatory	
	(3) Curve left	(2) Stop sign (3) Yield sign	
	(9) Unknown	(4) School zone sign	
		(5) Other regulatory sign (specify):	
23	Roadway Profile 4	DO NOT ENTER	
	(1) Level	(6) Warning sign (not RR crossing)	
	(2) Uphill grade (>2%)	(7) Unknown sign	
	(3) Hill crest	(8) Miscellaneous/other controls including RR	
(	4) Downhill grade (>2%)	controls (specify):	
	5) Sag	(0) 11-1	
(	(9) Unknown	(9) Unknown	
24. F	Roadway Surface Type 2	29. Traffic Control Device Functioning	2
	1) Concrete	(0) No traffic control device	<u> </u>
	2) Bituminous (asphalt)	(1) Traffic control device not functioning	
	3) Brick or block	(specify)	
	4) Slag, gravel, or stone	•	
	5) Dirt	(2) Traffic control device functioning properly	j
	8) Other (specify): 9) Unknown	(9) Unknown	1
(	J) CHRIOWII		
	·		
	T .		1

Cate	Configure		BEST	AVAILABLE
kur)	ation	ACCIDENT TYPES (Includes Intent)		
	A. Right Roadside Departure	DRIVE OFF CONTROL/ AVOID COLLISION SPEC	CIFICS SP	ECIFICS
I. Single Driver	B. Left Roadside Departure	06 07 08 1 09  DRIVE OFF CONTROL	10 CIFICS SPI	ECIFICS
	C Forward Impact	PARKED VEH: STA. OBJECT PEDESTRIAN/ END SPEC	16	KNOWN
VE N.S	D Reur-End	20 22 24 26 28 30 (EAC)  STOPPED SLOWER DECEL. 31 SPECI	CH • 32) (EA	KNOWN ACH • 331
II. Same Trafficway Saibe Direction	F Forward Impact	CONTROL/ CONTROL/ AVOID COLLISION AVOID COLLISION  TRACTION LOSS TRACTION LOSS	R UNI IEACH • 42) (I SPECIFICS	KNOWN
	F. Sideswipe Angle	44 45 45 (EACH · 48) SPECIFICS OTHER	(EACH • 49 SPECIFICS UN	)
Ne.	G Head-On	50 51 (EACH • 52) (EACH • 53)  SPECIFICS OTHER SPECIFICS UNKNOWN		<del>7</del>
Same Trafficway Opposite Direction	H Forward Impact	CONTROL/ CONTROL/ AVOID COLLISION AVOID COLLISION STRACTION LOSS WITH VEH		ACH • 63 PECIFICS
= ,	l. Sideswipe' Angle	65 (EACH • 66) (EACH • 67)  SPECIFICS SPECIFICS UNKNOWN  OTHER		
Change Trafficuay Vehicle Turning	J. Turn Across Path	INITIAL OPPOSITE INITIAL SAME DIRECTIONS SP		CIFICS
IV. Change Vehicle	K. Turn Into Path	76 79 81 81 82 IEA	ACH • 84) (EA	ACH • 85)
ing Paths (Vehicle Dainage)	L. Straight Paths	TURN INTO OPPOSITE DIRECTIONS OTI		KNOWN
VI Miscel- laneous	M. Backing Eic.	92 93 OTHER VEH. OR OBJECT 98 Other Accident Type BACKING VEH. 00 No Impect	) Туре	

	PRECRASH DRIVER RELATED DATA	This Vehicle Traveling
30	Driver's Distraction/Inattention To Driving (Prior To Recognition Of Critical Event) (00) No driver present (01) Attentive or not distracted (02) Looked but did not see	(10) Over the lane line on left side of travel lane (11) Over the lane line on right side of travel lane (12) Off the edge of the road on the left side (13) Off the edge of the road on the right side (14) End departure
	Distractions (03) By other occupant(s), (specify):	(15) Turning left at intersection (16) Turning right at intersection (17) Crossing over (passing through) intersection
	(04) By moving object in vehicle (specify):	(18) This vehicle decelerating (19) Unknown travel direction
	(05) While talking or listening to cellular phone (specify location and type of phone):	Other Motor Vehicle In Lane (50) Other vehicle stopped
	(06) While dialing cellular phone (specify location and type of phone):	(51) Traveling in same direction with lower steady speed
	(07) While adjusting climate controls (08) While adjusting radio, cassette, CD (specify):	<ul> <li>(52) Traveling in same direction while decelerating</li> <li>(53) Traveling in same direction with higher speed</li> <li>(54) Traveling in opposite direction</li> <li>(55) In crossover</li> </ul>
	(09) While using other device/object in vehicle (specify):	(56) Backing (59) Unknown travel direction of other motor vehicle in
	(10) Sleepy or fell asleep (11) Distracted by outside person, object, or event (specify):	Other Motor Vehicle Encroaching Into Lane (60) From adjacent lane (same direction)—over left
	<ul> <li>(12) Eating or drinking</li> <li>(13) Smoking related</li> <li>(97) Distracted/inattentive, details unknown</li> <li>(98) Other, distraction (specify):</li> </ul>	lane line (61) From adjacent lane (same direction)—over right lane line (62) From opposite direction—over left lane line (63) From opposite direction—over right lane line
	(99) Unknown  Pre-Event Movement (Prior to Recognition of Critical Event) (00) No driver present (01) Going straight (02) Decelerating in traffic lane (03) Accelerating in traffic lane (04) Starting in traffic lane (05) Stopped in traffic lane (06) Passing or overtaking another vehicle (07) Disabled or parked in travel lane (08) Leaving a parking position (09) Entering a parking position (10) Turning right (11) Turning left (12) Making a U-turn	<ul> <li>(64) From parking lane</li> <li>(65) From crossing street, turning into same direction</li> <li>(66) From crossing street, across path</li> <li>(67) From crossing street, turning into opposite direction</li> <li>(68) From crossing street, intended path not known</li> <li>(70) From driveway, turning into same direction</li> <li>(71) From driveway, across path</li> <li>(72) From driveway, turning into opposite direction</li> <li>(73) From driveway, intended path not known</li> <li>(74) From entrance to limited access highway</li> <li>(78) Encroachment by other vehicle—details unknown</li> <li>Pedestrian, Pedalcyclist, or Other Nonmotorist</li> <li>(80) Pedestrian in roadway</li> <li>(81) Pedestrian—unknown location</li> </ul>
ı	13) Backing up (other than for parking position) 14) Negotiating a curve 15) Changing lanes 16) Merging 17) Successful avoidance maneuver to a previous critical event 197) Other (specify): 18) Unknown	(83) Pedalcyclist or other nonmotorist in roadway (specify):  (84) Pedalcyclist or other nonmotorist approaching roadway, (specify):  (85) Pedalcyclist or other nonmotorist—unknown location (specify):  Object or Animal (87) Animal in roadway
(	Critical Precrash Event  This Vehicle Loss of Control Due To:  01) Blow out or flat tire  02) Stalled engine  03) Disabling vehicle failure (e.g., wheel fell off) (specify):  04) Non-disabling vehicle problem (e.g., hood flew up) (specify):  05) Poor road conditions (puddle, pot hole, ice, etc.)	(88) Animal approaching roadway (89) Animal—unknown location (90) Object in roadway (91) Object approaching roadway (92) Object—unknown location (98) Other critical precrash event (specify):
(	(specify):	

(09) Unknown cause of control loss

National Accident Sampling System-Crashworthiness Data	a System: General Vehicle Form BEST AVAILABLE Page
33. Attempted Avoidance Maneuver (00) No driver present (01) No avoidance maneuver (02) Braking (no lockup) (03) Braking (lockup) (04) Braking (lockup unknown) (05) Releasing brakes (06) Steering left (07) Steering right (08) Braking and steering left (09) Braking and steering right (10) Accelerating (11) Accelerating and steering right (12) Accelerating and steering right (98) Other action (specify): (99) Unknown  34. Pre-Impact Stability (0) No driver present (1) Tracking (2) Skidding longitudinally—rotation less than 30 degrees (3) Skidding laterally—clockwise rotation (4) Skidding laterally—counterclockwise rotation (7) Other vehicle loss-of-control (specify):	35. Pre-Impact Location (0) No driver present (1) Stayed in original travel lane (2) Stayed on roadway but left original travel lane (3) Stayed on roadway, not known if left original travel lane (4) Departed roadway (5) Remained off roadway (6) Returned to roadway (7) Entered roadway (9) Unknown  36. Accident Type (Note: Applicable codes on back of this page) (00) No impact Code the number of the diagram that best describes the accident circumstance (98) Other accident type (specify): (99) Unknown
STOP HERE IF GV07 DOE	ES NOT EQUAL 01 - 49

Source:

Unknown roll direction

# **CODES FOR ROLLOVER INITIATION OBJECT CONTACTED**

(00) No rollover (01-30) — Vehicle Number	(57) Fence (58) Wall
Alamasitalass	(59) Building
Noncollision	(60) Ditch or culvert
(31) Turn-over — fall-over	(61) Ground
(32) No rollover impact initiation (end-over-end)	(62) Fire hydrant
(34) Jackknife	(63) Curb
- m	(64) Bridge
Collision With Fixed Object	(68) Other fixed object (specify):
(41) Tree (≤ 10 cm in diameter)	
(42) Tree (> 10 cm in diameter)	(69) Unknown fixed object
(43) Shrubbery or bush	(
(44) Embankment	Collision with Nonfixed Object
	(70) Passenger car, light truck, van, or other vehicle
(45) Breakaway pole or post (any diameter)	not in-transport
( ), areamone, poor or poor (any anamone)	(71) Medium/heavy truck or bus not in-transport
Nonbreakaway Pole or Post	(76) Animal
(50) Pole or post (≤ 10 cm in diameter)	(77) Train
(51) Pole or post (> 10 cm but ≤ 30 cm in diameter)	(78) Trailer, disconnected in transport
(52) Pole or post (> 30 cm in diameter)	(79) Object fell from vehicle in-transport
(53) Pole or post (diameter unknown)	(79) Object tell from Verlicle in-transport
(33) Pole of post (diameter unknown)	(88) Other nonfixed object (specify):
(54) Concrete traffic barrier	(89) Unknown nonfixed object
(55) Impact attenuator	·
(56) Other traffic barrier (includes guardrail) (specify):	(98) Other event (specify):
(5500.),,	(99) Unknown event or object

OVERRIDE/UNDERRIDE (THIS VEHICLE)	ACCIDENT RECONSTRUCTION PROGRAMS
51. Front Override/Underride (this Vehicle)	HIGHEST DELTA V
52. Rear Override/Underride (this Vehicle) (0) No override/underride, or not an end-to-end impact between two CDS applicable vehicles, and	58. Basis for Total (Resultant) Delta V
no medium/heavy truck or bus underride	(00) No vehicle inspection
Override (see specific CDC) [Between 2 CDS applicable vehicles (Bodytype, GV07=1-49)] (1) 1st CDC (2) 2nd CDC (3) Other not automated CDC (specify):	Delta V Calculated (01) Reconstruction program -damage only routine (02) Reconstruction program -damage and trajectory routine (03) Missing vehicle algorithm
Underride (see specific CDC) [Between 2 CDS applicable vehicles (Bodytype, GV07=1-49)] (4) 1st CDC (5) 2nd CDC (6) Other not automated CDC (specify):	Delta V Not Calculated  (04) At least one vehicle (which may be this vehicle) is beyond the scope of an acceptable reconstruction program, regardless of collision conditions.
<ul> <li>(7) Medium/heavy truck or bus override (of any configuration)</li> <li>(9) Unknown</li> <li>HEADING ANGLE AT IMPACT FOR HIGHEST DELTA V</li> </ul>	All vehicles within scope (CDC applicable) of reconstruction program but one of the collision conditions is beyond the scope of the reconstruction program or other acceptable reconstruction technique, regardless of adequacy of damage data.
Values: (000)-(359) Code actual value (997) Noncollision (998) Impact with object (999) Unknown  53. Heading Angle For This Vehicle  54. Heading Angle For Other Vehicle  RECONSTRUCTION DATA	(05) Rollover (06) Other non-horizontal forces (07) Sideswipe type damage (08) Severe override (09) Yielding object (10) Overlapping damage (11) All vehicle and collision conditions are within scope of one of the acceptable reconstruction programs, but there is insufficient data available,
55.Towed Trailing Unit (0) No towed unit (1) Yes—towed trailing unit (9) Unknown	(98) Other, (specify):
56. Documentation of Trajectory Data for This Vehicle (0) No (1) Yes	
57. Post Collision Condition of Tree or Pole (For Highest Delta V) (0) Not collision (for highest delta V) with tree or pole (1) Not damaged (2) Cracked/sheared (3) Tilted <45 degrees (4) Tilted ≥45 degrees (5) Uprooted tree (6) Separated pole from base (7) Pole replaced (8) Other (specify): (9) Unknown	

COMPUTER GENERA	TED CRASH SEVERITY
59. Total Delta V  87. 9 Nearest kmph (highest)  Nearest kmph (secondary)  (NOTE: 000 means less than 0.5 kmph) (160) 159.5 kmph and above (999) Unknown  Highest  60. Longitudinal Component of Delta V  86.6 Nearest kmph (highest)	Highest  G3. Impact Speed  Nearest kmph (highest)  Nearest kmph (secondary)  (NOTE: 000 means less than 0.5 kmph) (160) 159.5 kmph and above (998) Trajectory algorithm not run (999) Unknown
	DELTA V CONFIDENCE LEVEL
Nearest kmph (secondary)  (NOTE:000 means greater than -0.5 kmph and less than +0.5 kmph) (±160) ±159.5 kmph and above (999) Unknown  Highest  61. Lateral Component of Delta V	64. Confidence in Reconstruction Program Results (For Highest Delta V) (0) No reconstruction (1) Collision fits model — results appear reasonable (2) Collision fits model — results appear high (3) Collision fits model — results appear low (4) Borderline reconstruction — results appear reasonable
<u>−/5⋅3</u> Nearest kmph (highest)	OTHER SPEED ESTIMATE
Nearest kmph (secondary)  (NOTE:000 means greater than -0.5 kmph and less than +0.5 kmph) (±160) ±159.5 kmph and above (_999) Unknown  S2. Energy Absorption	Highest  65. Barrier Equivalent  Speed  Nearest kmph (highest)  Nearest kmph (secondary)  (NOTE: 000 means less than 0.5 kmph) (160) 159.5 kmph and above (999) Unknown
(9997) 999,650 joules or more (9999) Unknown	

IS MISSING VEHICLE ALGORITHM APPLICABLE FOR THIS VEHICLE? []YES [了NO IF YES: IS A COMPLETED PROGRAM SUMMARY INCLUDED? [] YES [] NO

### ESTIMATED DELTA V **VEHICLE INSPECTION** Φ 3 66. Estimated Highest Delta V (Researcher 67. Type of Vehicle Inspection Determined) (0) No inspection (0) Reconstruction Delta V coded (1) Vehicle fully repaired-no damage evident (2) Partial inspection (specify): Estimated Delta V (1) Less than 10 kmph (3) Complete inspection (2) ≥ 10 kmph but < 25 kmph (3) ≥ 25 kmph but < 40 kmph (4) ≥ 40 kmph but < 55 kmph (5) ≥ 55 kmph Other estimates of damage severity (6) Minor (7) Moderate (8) Severe (9) Unknown

\*\*\* IF THE CDS APPLICABLE VEHICLE WAS NOT INSPECTED (I.E., GV67=0), \*\*\*

DO NOT COMPLETE THE EXTERIOR AND INTERIOR VEHICLE FORMS

\*\*\* IF GV07 DOES NOT EQUAL 01-49, DO NOT COMPLETE \*\*\*

THE EXTERIOR VEHICLE, INTERIOR VEHICLE,

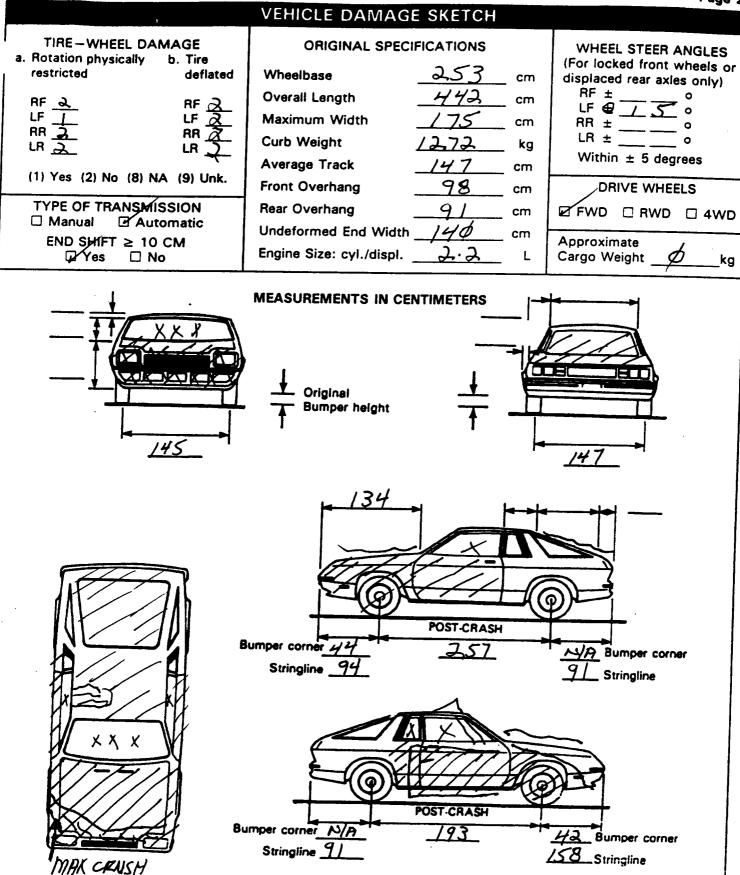
OCCUPANT ASSESSMENT, AND OCCUPANT INJURY FORMS.

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM National Highway Traffic Safety EXTERIOR VEHICLE FORM Administration 3. Vehicle Number 1. Primary Sampling Unit Number DS1-95-5P-0/3 2. Case Number - Stratum VEHICLE IDENTIFICATION VIN JT25 T85 N8 MB KK KK Model Year 9 1 Vehicle Model (specify): CELICA **LOCATOR** Locate the end of the damage with respect to the vehicle longitudinal center line or bumper corner for end impacts or an undamaged axle for side impacts Specific Impact No. **Location of Direct Damage** Location of Field L Location of Max Crush FRONTAL FROMTAL **CRUSH PROFILE IN CENTIMETERS** NOTES: Identify the plane at which the C-measurements are taken (e.g., at bumper, above bumper, at sill, above sill, etc.) and label adjustments (e.g., free space). Measure C1 to C6 from driver to passenger side in front or rear impacts and rear to front in side impacts. Free space value is defined as the distance between the baseline and the original body contour taken at the individual C locations. This may include the following: bumper lead, bumper taper, side protrusion, side taper, etc. Record the value for each C-measurement and maximum crush. Use as many lines/columns as necessary to describe each damage profile.

Specific Impact Number	Plane of Impact C-Measurements	Width (CDC)	Damage Max Crush	Field	C,	C <sub>2</sub>	C <sub>3</sub>	C,	C <sub>5</sub>	C <sub>6</sub>	±D
<b>ø</b> /	FRONT BYMAER	140	115.5	73	49.5	83.0	8d.5	94.5	102.5	115.5	Ø
	LESS F/S		10.0	•	10.0	1.0	Ø	Ø	1.0	10.0	
	RESULTANT		1055		39.5	82.4	205	94.5	141.5	105.5	Ø
									·		Í

# ORIGINAL SPECIFICATIONS WORK SHEET

Wheelbase	$\cancel{\cancel{4}}$ $\cancel{9}$ $\cancel{9}$ . $\cancel{\cancel{6}}$ inches	x 2.54	=	<u> 253</u> cm
Overall Length	174.\$\overline{4}\$ inches	x 2.54	=	<u> 442 cm</u>
Maximum Width	$\cancel{\phi}$ $\cancel{6}$ $\cancel{8}$ $\cancel{9}$ inches	x 2.54	=	cm
Curb Weight	$\phi 2.8 \phi 9$ pounds	x .4536	=	1,272 kg
Average Track	$\cancel{\phi} 57.9$ inches	x 2.54	=	<u> 147</u> cm
Front Overhang	<u>Ø 3 8 .6</u> inches	x 2.54	=	<u>\$ 98 cm</u>
Rear Overhang	435.8 inches	x 2.54	=	<u> </u>
Undeformed End Width	0.55.1 inches	x 2.54	=	cm
Engine Size: cyl./displ.	<u>22 Φ ≠</u> ∞	x .001	=	<u> 2.2</u> L
		x .0164	=	<u>a.a</u> L



NOTES; Sketch new perimeter and cross hatch direct damage and single hatch induced damage on all views. Annotate observations which might be useful in reconstructing the accident (e.g., grass in tire bead, direction of striations, scuff on sidewalls, etc.). If pulling trailer, sketch type of trailer and damage received on the back of this page.

Annotate any damage caused by extrication such as component removal by torching, prying, or hydraulic shears.

			CDC	WORKSH	EE	T				
CODES FOR OBJECT CONTACTED										
(01-30)	- Vehicle Nu	mber		(!	57)	Fence				
, ,					58)	Wall				
Noncoli				(4	59)	Building				
		ollover (excludes	end-over-end		<del>3</del> 0)					
(32)					31)					
(33)		sion			32)	Fire hyd	Irant			
	Jackknife Other intraun	it damage (specif	Α		33)					
(33)	Oulei iiiu auti	ii uairiaye (specii	<b>y</b> ).		34) 38)		ced object (s	nacify):		
(36) (38)	Noncollision i		•	Unknown fixed object						
(39)		- details unknow			•		_			
(39)	Noncollision -	— details unknow	n ·				nfixed Object		<b> </b>	
Collision	n With Fixed O	hiect		(/	U)	not in-tra		truck, van, o	r other vehicle	
	Tree (≤ 10 cn			(7	<b>'</b> 1)		/heavy truck	or hus not in	-transport	
	Tree (> 10 cn			'n	2)	Pedestri	an	or bus not in	-uansport	
	Shrubbery or	bush				Cyclist o				
(44)	Embankment				4)		onmotorist or	conveyance	•	
(45)	Breakaway po	ole or post (any di	ameter)				occupant			
Nonhres	akaway Pole o	r Poet				Animal				
(50)	Pole or post (	i Fost ≤ 10 cm in diamet	ar)	(7	8)	Train	licconnected	in transport		
(51)	Pole or post (	≥ 10 cm but ≤ 30		9)	Trailer, disconnected in transport Object fell from vehicle in-transport					
	Pole or post (	(8		Other nonfixed object (specify):						
		diameter unknow		-,			. (ороону).			
(54)	Concrete traff	ic barrier		(8	9)	Unknow	n nonfixed ob	oject	***************************************	
(55)	Impact attenua	ator	ordroiN	(9	8)	Other ev	ent (specify):	•		
	Other traffic barrier (includes guardrail) (specify):			(9:	9)	Unknown	n event or ob	ject		
	·		<del></del> -						<del></del>	
		DEFORMA	TION CLASS	IFICATION B						
Accident		(1) (2)			5	(4) Specific	(5) Specific	(6)		
Event		Direction	incremental	(3)	Lor	ngitudinal	Vertical or	Type of	(7)	
Sequence Number	Object	of Force	Value of	Deformation		r Lateral	Lateral	Damage	Deformation	
Number	Contacted	(degrees)	Shift	Location	L	ocation	Location	Distribution	Extent	
Ø1	02	910	(0 ¢)	F		$\mathcal{D}$	E	W	<u>\$4</u>	
				<del></del>		<del></del>		<del></del>		
<del></del>					-	<del></del>				
	<del></del>				-	<del></del>				
<del></del>				<del></del>	-	<del></del>				
			<del></del>		-				<del></del>	
<del></del>					-	<del></del>				
	·				-			-	<del></del>	
					_					
					-	<del></del>				

		COLLISION	DEFORM <i>A</i>	TION CLAS	SIFICATIO	<u>N</u>		
HIGHEST	DELTA "V"							
Accident Event Sequence Number	Object Contacted	(1) (2) Direction of Force	(3) Deformation Location	(4) Longitudinal or Lateral Location	(5) Vertical or Lateral Location	(6) Type of Damage Distribution	(7) Deformation Extent	
4. <u>Ø</u> <u> </u>	5 <u>. Ø 2</u>	6. 7 <u>2</u>	7. <u>F</u>	8. <u>D</u>	9. <u>E</u>	10 <u>. W</u>	11. <u>\$4</u>	
Second Hiç	ghest Delta "V"							
12	13	. 14	15	16	17	18	19	
		CRUS	H PROFILE	IN CENTIME	ETERS			
	The crush pring the app	rofile for the dam propriate space b	nage described selow. (ALL ME	in the CDC(s) all ASUREMENTS	bove should be ARE IN CENTI	documented METERS.)		
HIGHEST (	DELTA <b>"V"</b>							
20. 	21. 				<u>C<sub>5</sub></u> <u> </u>		22. ±D	
144	444	<u> 482</u>	<u> 181 4</u>	195 /	<u> </u>	<u> </u>	<u> </u>	
Second Hig	hest Delta "V"							
23. 	24. 			C	C <sub>5</sub> C		5. ±D	
						+ 		
26. Undeformed End Width (Coded when highest severity impact is an end plane impact.)  Code to the nearest centimeter (250) 250 centimeters or more (998) No highest severity end plane impact (999) Unknown  27. Direct Demons Width  28. Original Wheelbase Code to the nearest centimeter (650) 650 centimeters or more (999) Unknown  29. Original Average Track Width								
27. Direct Damage Width (For highest severity impact)  — Code to thenearest centimeter (250) 250 centimeters or more (999) Unknown  — Code to the nearest — centimeter (185) 185 centimeters or more (999) Unknown — (999) Unknown — (999) Unknown — (999) Unknown — (999) Unknown								

Lacerated (ripped)
Abraded (scraped)

Unknown

(9)

Other damage (specify):

Filler neck separation from the fuel tank

	onal Accident Sampling System-Crashworthiness Da		Page
43.	Leakage Location of Fuel System-1	47. Is This Vehicle Equipped With More Than Two Fuel Tanks?	Ψ
44.	Leakage Location of Fuel System-2 (0) No fuel tank	(0) No (one or two tanks only)	
	(1) No fuel leakage	Yes - More Than Two Tanks	
	(1) 140 fuer leakage	(1) Yes - <u>no damage</u> to any tank or filler	
	Primary Area Of Leakage	cap and <u>no fuel system leakage</u>	
	(2) Tank	(2) Yes – <u>no damage</u> to any tank or filler	
	(3) Filler neck	cap but there is fuel system leakage	
	(4) Cap	(specify leakage location):	
	(5) Lines/pump/filter	(Specify leakage location).	
	(6) Vent/emission recovery	(3) Yes – damage to an additional tank or	
	(8) Other (specify):	filler cap and there is fuel system leakage	
	(9) Unknown	(specify the following):	
	(O) CHRIGHT	(specify the following).	
	, ,	Type of tank	
45	Fuel Type-1 $arphi$ /	Tank location	
75.	Tuel Types T	Filler cap location	
46	Fuel Type-2 Ø Ø	Tank damage  Location of leakage	
70.	y y	Type of fuel	
	Single Fuel Type	Type of fuel	
	(00) No fuel tank	(9) Onknown ii more than two tanks	
	(01) Gasoline		
	(02) Diesel		
	(03) CNG (Compressed Natural Gas)	COMMENTS	
	(04) LPG (Liquid Petroleum Gas) also	COMMEN 12	
,	known as Propane		
	(05) LNG (Liquid Natural Gas)		
	(06) Methanol (M100 or M85)		
Ì	(07) Ethanol (E100 or E85)		
	(08) Other (Hydrogen or others) (specify):		
,			
	Electric Powered or Electric/Solar		
	Powered Vehicles		
	10) Lead Acid Battery		
	11) Nickel-Iron Battery		
	12) Nickel-Cadmium Battery		
	13) Sodium Metal Chloride Battery		
	14) Sodium Sulfur Battery		
	18) Other (Specify):		
`	Toy Care (Openly).		
(	98) Other Hybrid (specify):		
(	99) Unknown fuel type		
	*** STOP: IF THE CDS APPLICABLE	VEHICLE WAS NOT TOWED ***	
	(GV10	)=0)	
	DO NOT COMPLETE THE IN	•	
		TELLIOIT VELITORE I OITIVI.	

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#### INTERIOR VEHICLE FORM

NATIONAL ACCIDENT SAMPLING SYSTEM

National Highway Traffic Safety Administration

1. Primary Sampling Unit Number 2. Case Number - Stratum 3. Vehicle Number INTEGRITY 4. Passenger Compartment Integrity (00) No integrity loss Yes, Integrity Was Lost Through (01) Windshield (02) Door (side) (03) Door/hatch (back door) (04) Roof (05) Roof glass (06) Side window (07) Rear window (backlight) (08) Roof and roof glass (09) Windshield and door (side) (10) Windshield and roof (11) Side and rear window (side window and backlight) (12) Windshield and side window (13) Door and side window (98) Other combination of above (specify): (99) Unknown Door, Tailgate or Hatch Opening 5. LF\_/\_ 6. RF 3 7. LR Ø 8. RR Ø 9. TG/H / (0) No door/gate/hatch (1) Door/gate/hatch remained closed and operational (2) Door/gate/hatch came open during collision (3) Door/gate/hatch jammed shut (8) Other (specify): (9) Unknown Damage/Failure Associated with Door, Tailgate or Hatch Opening in Collision. If IV05-IV09 ≠ 2, Then code Ø 10. LF  $\phi$  11. RF  $\phi$  12. LR  $\phi$  13. RR  $\phi$  14. TG/H $\phi$ (0) No door/gate/hatch or door not opened Door, Tailgate or Hatch Came Open During Collision (1) Door operational (no damage) (2) Latch/striker failure due to damage (3) Hinge failure due to damage (4) Door structure failure due to damage (5) Door support (i.e., pillar, sill, roof side rail, etc.) failure due to damage

CRASHWORTHINESS DATA SYSTEM GLAZING Type of Window/Windshield Glazing 15. WS 1 16. LF 2 17. RF 2 18. LR 2 19. RR 2 20. BL <u>2</u> 21. Roof <u>2</u> 22. Other Ø (0) No glazing (1) AS-1 — Laminated (2) AS-2 - Tempered (3) AS-3 — Tempered-tinted (original) (4) AS-2 — Tempered-with after market tint (5) AS-3 — Tempered-tinted (with additional after market tint) (6) AS-14 — Glass/Plastic (7) Glazing removed prior to accident (8) Other (specify): (9) Unknown Window Precrash Glazing Status 23. WS / 24. LF / 25. RF / 26. LR / 27. RR / 28. BL / 29. Roof **3** 30. Other **4** (0) No glazing (1) Fixed Closed (2) (3) Partially opened (4) Fully opened (7) Glazing removed prior to accident (9) Unknown Glazing Damage from Impact Forces 31. WS 4 32. LF 6 33. RF 6 34. LR 6 35. RR 6 (0) No glazing (1) No glazing damage from impact forces (2) Glazing in place and cracked from impact forces (3) Glazing in place and holed from impact forces (4) Glazing out-of-place (cracked or not) and not holed from impact (5) Glazing out-of-place and holed from impact forces (6) Glazing disintegrated from impact forces Glazing removed prior to accident (9) Unknown if damaged Glazing Damage from Occupant Contact 39. WS <u>3</u> 40. LF <u>/</u> 41. RF <u>/</u> 42. LR <u>/</u> 43. RR <u>/</u> 44. BL / 45. Roof / 46. Other Ø (0) No glazing (1) No occupant contact to glazing (2) Glazing contacted by occupant but no glazing damage (3) Glazing in place and cracked by occupant contact

(4) Glazing in place and holed by occupant contact (5) Glazing out-of-place (cracked or not) by occupant

contact and not holed by occupant contact

(6) Glazing out-of-place by occupant contact and holed by occupant contact

Glazing removed prior to accident

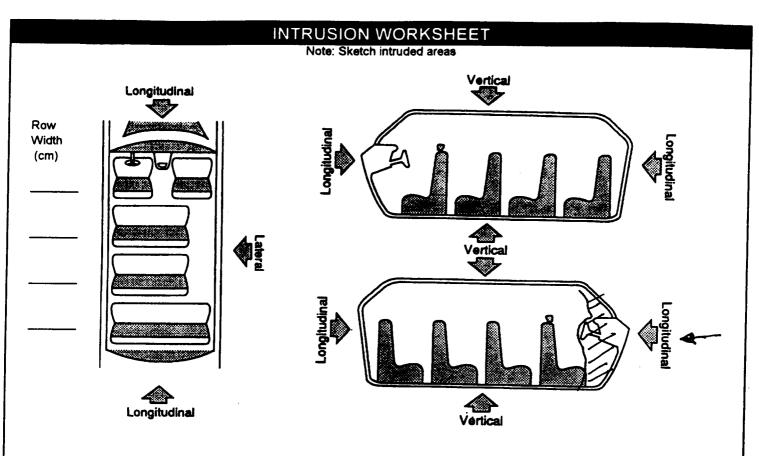
(8) Glazing disintegrated by occupant contact

(9) Unknown if contacted by occupant

(9) Unknown

(6) Latch/striker and hinge failure due to damage

(8) Other failure (specify):



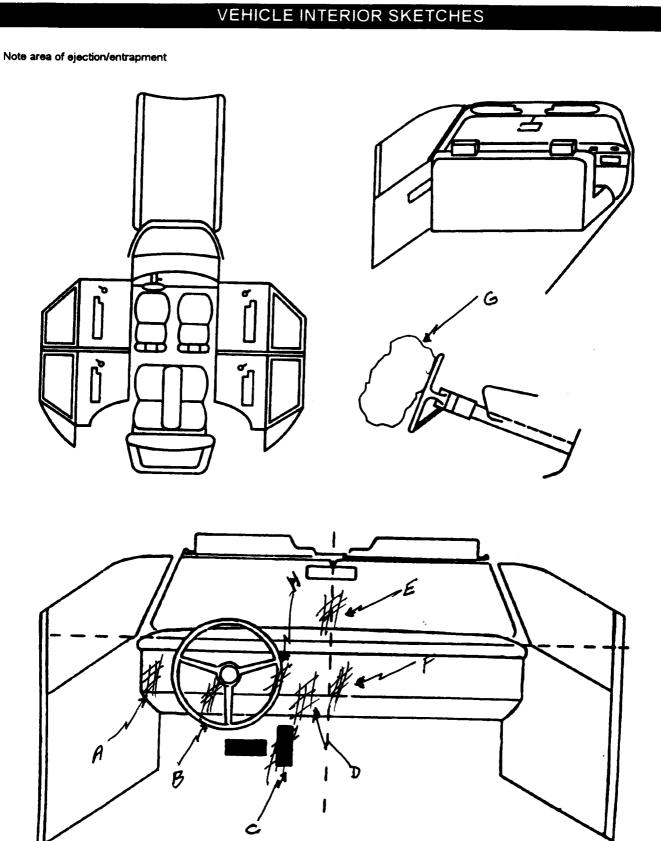
LOCATION OF INTRUSION	INTRUDED COMPONENT	COMPARISON VALUE	(All Meas	surements Are In Cen INTRUDED VALUE	ntimeters)	INTRUSION	DOMINANT CRUSH DIRECTION
R/510E	"A"PILLAR (LOLLER)	103.0	_	69.4	=	34.\$	LONG
R/SIDE	"A"PILLAR (TOP)	65.d		54.0	· =	15.4	LONG
R/SIDE	INTRUMENT PANE	85.¢	<u> </u>	54.6	=	3/·ø	LONG
R/S10E R/S10E	SINE PANEL	Ø	_	23.⊄	=	23.d	LAT.
		,			=	, 	
			_		=		
					=		
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			_		=	·	
			_		=		
			_		=		
			_		=		
٠.			_		3		
					=		

#### Page 2 OCCUPANT AREA INTRUSION Note: If no intrusions, leave variables IV47-IV86 blank. INTRUDING COMPONENT Dominant Interior Components Location of Intruding Magnitude (01) Steering assembly Crush Intrusion Component of Intrusion Direction (02) Instrument panel left (03) Instrument panel center (04) Instrument panel right 1st 47. 2 3 48. 0 6 49. 4 50. 2 (05) Toe pan (06) A (A1/A2)-pillar (07) B-pillar 2nd 51. 2 3 52. 4 53. 4 54. 2 (08) C-pillar (09) D-pillar (10) Side panel - forward of the A1/A2-pillar (11)Door panel (side) Side panel - rear of the B-pillar 3rd 55. $\frac{3}{56}$ 56. $\frac{1}{6}$ $\frac{4}{57}$ 58. $\frac{3}{58}$ (12)(13) Roof (or convertible top) (14) Roof side rail (15) Windshield (16) Windshield header 4th 59. 2 3 60. 0 6 61. 2 62. 2 (17) Window frame (18) Floor pan (includes sill) (19) Backlight header (20) Front seat back 5th 63.\_\_\_\_ 64.\_\_\_ 65.\_\_ 66. (21) Second seat back (22) Third seat back (23) Fourth seat back (24) Fifth seat back 6th 67.\_\_\_\_ 68.\_\_\_ 69.\_\_\_ 70.\_\_ (25) Seat cushion (26) Back door/panel (e.g., tailgate) (27) Other interior component (specify): 7th 71.\_\_\_\_ 72.\_\_\_ 73.\_\_\_ 74.\_\_\_ Exterior Components (30) Hood 8th 75.\_\_\_\_ 76.\_\_\_ 77.\_\_\_ 78.\_\_\_ (31) Outside surface of this vehicle (specify): (32) Other exterior object in the environment (specify): 9th 79.\_\_\_\_ 80.\_\_\_ 81.\_\_\_ 82.\_\_\_ (33) Unknown exterior object (97) Catastrophic (98) Intrusion of unlisted component(s) (specify): 10th 83.\_\_\_\_ 84.\_\_\_\_ 85.\_\_\_ 86.\_\_\_ (99) Unknown LOCATION OF INTRUSION MAGNITUDE OF INTRUSION (1) ≥ 3 centimeters but < 8 centimeters Front Seat Fourth Seat (2) ≥ 8 centimeters but < 15 centimeters (11) Left (41) Left (3) ≥ 15 centimeters but < 30 centimeters (12) Middle (42) Middle (4) ≥ 30 centimeters but < 46 centimeters (13) Right (43) Right (5) ≥ 46 centimeters but < 61 centimeters (6) ≥ 61 centimeters **Second Seat** (97) Catastrophic (7) Catastrophic (21) Left (98) Other enclosed (9) Unknown (22) Middle area (specify) (23) Right (99) Unknown DOMINANT CRUSH DIRECTION Third Seat (1) Vertical (31) Left (2) Longitudinal (32) Middle (3) Lateral (33) Right (7) Catastrophic

(9) Unknown

S	TEERING	RIM/SPOKE DEF	ORMATI	ON	
	(All I	Measurements Are in Centime	ters)		-
COMPARISON VALUE	_	DAMAGE VALUE	=	DEFORMATION	
	_		, =		
A		A	=	h	
		9	=	19	<del></del> -
			=		
		,			
					ĺ
					į
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					1

STEERING COLUMN	INSTRUMENT PANEL			
87. Steering Column Type (1) Fixed column	92. Odometer Reading 99. 99. 99. 99. 99. 99. 99. 99. 99. 99			
(2) Tilt column (3) Telescoping column (4) Tilt and telescoping column (8) Other column type (specify):	kilometers Code to the nearest 1,000 kilometers (000) No odometer (001) Less than 1,500 kilometers (500) 499,500 kilometers or more			
(9) Unknown	(999) Unknown miles X 1 6093 = kilometers			
88. Tilt Steering Column Adjustment (0) No tilt steering column (1) Full up (2) Between full up and center (3) Center (4) Between center and full down (5) Full down (9) Unknown	93. Instrument Panel Damage from Occupant Contact? (0) No (1) Yes (9) Unknown  94. Type of Knee Bolster Covering (0) No knee bolster			
89. Telescoping Steering Column Adjustment (0) No telescoping steering column (1) Full back (2) Between full back and midpoint (3) Midpoint (4) Between midpoint and full forward (5) Full forward (9) Unknown	(1) Padded (2) Rigid plastic (8) Other (specify): (9) Unknown  95. Knee Bolsters Deformed from Occupant Contact? (0) No knee bolster (1) No deformation (2) Yes - deformation (9) Unknown			
90. Steering Rim/Spoke Deformation  Code actual measured deformation to the nearest centimeter (00) No steering rim deformation (01-14) Actual measured value in centimeters (15) 15 centimeters or more (98) Observed deformation cannot be measured (99) Unknown	96. Did Glove Compartment Door Open During Collision(s)? (0) No glove compartment door (1) No - door did not open (2) Yes - door opened (9) Unknown			
91. Location of Steering Rim/Spoke Deformation (00) No steering rim deformation  Quarter Sections (01) Section A (02) Section B (03) Section C (04) Section D  Half Sections (05) Upper half of rim/spoke (06) Lower half of rim/spoke (07) Left half of rim/spoke (08) Right half of rim/spoke (09) Complete steering wheel collapse (10) Undetermined location (99) Unknown	97. Adaptive (Assistive) Driving Equipment (0) No adaptive driving equipment (1) Adaptive driving equipment installed (Check all that apply.) [] Hand controls for braking/acceleration [] Steering control devices (attached to OEM steering wheel [] Low effort power steering (unit or device) [] Replacement steering wheel (i.e., reduced diameter) [] Joy-stick steering controls [] Wheelchair tie-downs [] Modification to seat belts (specify):  [] Additional or relocated switches (specify):  [] Raised roof [] Wall-mounted head rest (used behind wheelchair) [] Other adaptive device (specify):  (9) Unknown			
	· ·			



Sketch windshield contact(s) and the damaged area(s) on the instrument panel outline (e.g., radio, glove compartment, damage to instrument panel structure.

Cross hatch contact points, draw spider webs or use other annotation as may be appropriate.

Annotate the contacted area with a letter (begin with A) and list on the Points of Occupant Contact page.

Page 5

				CLIDANT CONTACT		Page
		POI		CUPANT CONTACT		
	Interior	Occupant	Body Region			Confidence
	Component	No. If	If			Level of Contact
Contact	Contacted	Known	Known	Supporting Physical	Evidence	Point
Α	010	Ø1	KNEE	CRACKED / DISPL		3
В	007	0/	KNEE/LEG	DISPLACED		73
С	254	Ø/	R FOOT	DISPLACED		2
D	010	01	KNEE	CRACKED / DISPL	ACED	1
E	001	01	HEAD	CRACKED / DISPL HAIR /CRACKED CRACKED/ DISPL	9	1
F	011	01	UNX	CRACKED/DISPL	ACED	J
G	170	<i>d</i> 1	CHEST	DEPLOYED		1
Н	004	<b>Ø</b> /	(R) HAND	TRANSFER		2
1						
J						
K						
L				•		
М		·				
N						······································
005) Steering of codes of code	elephone or CB radio quipment(e.g., air conditioner) ament panel and strument panel and rument panel and npartment door	excluding armrests (052) Left side (053) Left A (A (054) Left side (055) Other left (056) Left side (057) Left side (058) Left side including following: A (A1/A2) roof side (060) Other left (specify):  RIGHT SIDE (101) Right side excluding armrests (102) Right side armrest (103) Right A (A (104) Right B-pi (105) Other righ (106) Right side (107) Right side (107) Right side (107) Right side (108) Right side (109) Right side (109) Right side (100) Right side (101) Other righ (101) Other righ (101) Other righ	hardware or armrest 1/A2)-pillar lar i pillar (specify): window glass window sill window glass one or more of the frame, window sill, -pillar, B-pillar, or rail. side object  interior surface, hardware or hardware or hardware or lar t pillar (specify): window glass window glass window glass window glass window glass window glass window sill window sill window sill, -pillar, B-pillar, or	(151) Seat, back support (152) Belt restraint webbing/buckle (153) Belt restraint B-pillar or door frame attachment point (154) Other restraint system component (specify): (155) Head restraint system (160) Other occupants (specify): (161) Interior loose objects (162) Child safety seat (specify): (163) Other interior object (specify):  AIR BAG (170) Air bag-driver side (180) Air bag compartment cover-driver side (180) Air bag compartment cover-passenger side (190) Other air bag (specify) (195) Other air bag compartment cover (specify)  ROOF (201) Front header (202) Rear header (203) Roof left side rail (204) Roof right side rail (204) Roof right side rail (205) Roof or convertible top  FLOOR (251) Floor (including toe pan) (252) Floor or console mounted	door, etc.  (303) Other rear object  ADAPTIVE (ASSISTIVE) EQUIPMENT  (401) Hand controls for braking/acceleral  (402) Steering control of (attached to OEM wheel)  (403) Steering knob attached to Steering wheel  (405) Replacement stee (i.e., reduced diar (406) Joy stick steering  (407) Wheelchair tie-do (408) Modification to se (specify):  (409) Additional or reloc switches, (specify)  (410) Raised roof  (411) Wall mounted head behind wheel chain (412) Other adaptive de (specify):	DRIVING  ion levices I steering ached to ering wheel meter) controls wms at belts,  rated ):
,		(specify):	<u> </u>	transmission lever, including console (253) Parking brake handle (254) Foot controls including parking brake	CONFIDENCE LEVEL OF CONTACT POINT (1) Certain	:

(1) (2) (3) (9)

Certain Probable Possible Unknown

		M	ANUAL REST	RAINTS		
NOTE	systems should be assessed di	r each seat pluring the vel	position in the vehicle	le. The attribute f	for the variable	e may be found below. Restra
	If a Child safety seat is present,	t, encode the	e data on the back of t	this page.		
	If the vehicle has automatic rest	traints avails				e previous page.
			Left	Cent		Right
	Availability		4	1	1	4
F	Evidence of usage		14	DE	<del>/</del>	34
l R	Used in this crash?		Øb	TAX.	<del>/</del> X	00
S	Proper Use		<b>3</b>	0	2	- D
Ť	Failure Modes	+	***************************************	Ø		3
	Anchorage Adjustment		7	<u>B</u>		+ 7
	Availability		4	3		4
s	Evidence of usage	_	<i>ර</i> ාර	00		<i>d</i>
OECOZD	Used in this crash?		(b)()	600		The state of the s
ŏ	Proper Use	<del>  _</del>	<b>\$</b>	0		
Ň	Failure Modes	<del> </del>	为 ,	10		+ %
υ —	Anchorage Adjustment	<del> </del>	<i>y</i>	7		+ - 7
	Availability	+	<del>/                                    </del>	<del></del>		+
0	Evidence of usage	+				<del>                                     </del>
Т	Used in this crash?	<del> </del>			/	<del>                                     </del>
H	Proper Use	+				<del></del>
H E R	Failure Modes	+				<del>                                     </del>
· ·	Anchorage Adjustment	+ -				
(0)	al (Active) Belt System Availability None available		se of Manual (Active) Be None used or not availat		Shoulder Belt U <sub>l</sub> Adjustment	Jpper Anchorage t
(1)	Belt removed/destroyed	(1)	Belt used property		(0) No sh	houlder belt
	Shoulder belt Lap belt	(2)	Belt used properly with o	child safety seat	(1) No up	pper anchorage adjustment for
(4)	Lap and shoulder belt		sed Improperty			lder belt
(5)	Belt available - type unknown	(3)	Shoulder belt worn unde			stable shoulder Belt Upper
	gral Belt Partially Destroyed	(5)	Shoulder bett worn behin Bett worn around more the		Ancho (2) in full	orage I up position
(6)	Shoulder beit (lap belt	(6)	Lap belt worn on abdome	ien	(3) In mid	d position
	destroyed/removed) Lap belt (shoulder belt		Lap belt or lap and should improperly with child safe		(4) In full	l down position ion unknown
, i	destroyed/removed)	(	(specify):		(9) Unkno	own if position has adjustable
(8)	Other belt (specify):	(8)	Other improper use of masystem (specify):	anual belt		r anchorage adjustment
(9) l	Unknown	_				
Manual	l (Active) Belt System Use	( <b>9</b> ) (	Unknown			
(00)	None used, not available, or belt					
(01)	removed/destroyed Inoperable (specify):	Accident	ctive) Belt Failure Mode	•		
(02)	Shoulder belt	• •	No manual belt used or n No manual belt failure(s)			
(03)	Lap belt	(2) T	Torn webbing (stretched			
(04) (05)	Lap and shoulder belt Belt used - type unknown	ir	included) Broken buckle or latchpla	<u>-</u>		
(08)	Other belt used (specify):	(4) U	Upper anchorage separate Other anchorage separate	ited		
(12)	Shoulder belt used with child safety seat	( <del>:</del>	(specify):			
(14)	Lap belt used with child safety seat Lap and shoulder belt used with child safety seat	` '	Broken retractor Combination of above (sp	ecify):		
(15)	Belt used with child safety seat - type unknown	(8) 0	Other manual belt failure (	(specify):		
(18)	Other belt used with child safety seat (specify):	(9) U	Unknown	<del></del>		
(99)	Unknown if belt used					

## **AUTOMATIC RESTRAINTS**

NOTES: Encode the data for each applicable front seat position. The attribute for the variables may be found below. Restraint systems should be assessed during the vehicle inspection then coded on the Occupant Assessment Form.

Δ	IR	R	Δ	G	S
_			_		_

		Left Front	Right Front	Other
F	Availability/Function		Ø.	0
R	Deployment		Ø	Ø,
T	Failure	1	Ø	1

#### Air Bag System Availability/Function

- (0) Not equipped/not available
- (1) Air bag

#### Non-functional

- (2) Air bag disconnected (specify):
- (3) Air bag not reinstalled
- (9) Unknown

#### Are There Indications of Air Bag System Failure? (This Occupant Position)

- (0) Not equipped/not available
- (1) No
- (2) Yes (specify):
- (9) Unknown

# Frontal Air Bag System Deployment (This Occupant Position)

- (0) Not equipped/not available
- (1) Deployed during accident (as a result of impact)
- (2) Deployed inadvertently just prior to accident
- (3) Deployed, accident sequence undetermined
- (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical)
- (5) Unknown if deployed
- (7) Nondeployed
- (9) Unknown

#### Air Bag(s) Deployment, <u>Other</u> Than First Seat Frontal (This Occupant Position)

- (0) Not equipped with an "other" air bag
- (1) Deployed during accident (as a result of impact)
- (2) Deployed inadvertently just prior to accident
- (3) Deployed, details unknown
- (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical)
- (5) Unknown if deployed
- (7) Nondeployed
- (9) Unknown

#### **AUTOMATIC BELTS**

<u> </u>		Left	Right
	Availability/Function		
F	Use	do la companya della companya della companya de la companya della	h
Ŕ	Туре	, W	$\psi$
S	Proper Use		
	Failure Modes		

#### Automatic (Passive) Belt System Availability/Function

- (0) Not equipped/not available
- (1) 2 point automatic belts
- (2) 3 point automatic beits
- (3) Automatic belts type unknown

#### Non-functional

- (4) Automatic belts destroyed or rendered inoperative
- (9) Unknown

#### Automatic (Passive) Belt System Use

- (0) Not equipped/not available/destroyed or rendered inoperative
- (1) Automatic belt in use
- (2) Automatic belt not in use (manually disconnected, motorized track inoperative)
- (3) Automatic belt use unknown
- (9) Unknown

## Automatic (Passive) Belt System Type

- (0) Not equipped/not available
- (1) Non-motorized system
- (2) Motorized system
- (9) Unknown

# Proper Use of Automatic (Passive) Belt System

- (0) Not equipped/not available/not used
- (1) Automatic belt used properly
- (2) Automatic belt used properly with child safety seat

#### Automatic Belt Used Improperty

- (3) Automatic shoulder belt worn under arm
- (4) Automatic shoulder belt worn behind back
- (5) Automatic belt worn around more than one person
- (6) Lap portion of automatic belt worn on abdomen
- (7) Automatic lap and shoulder belt or

automatic shoulder belt used improperly with child safety seat (specify):

- Other improper use of automatic bett system (specify):
- (9) Unknown

#### Automatic (Passive) Belt Failure Modes During Accident

- (0) Not equipped/not available/not in use
- (1) No automatic belt failure(s)
- (2) Torn webbing (stretched webbing not included)
- (3) Broken buckle or latchplate
- (4) Upper anchorage separated
- (5) Other anchorage separated (specify):
- (6) Broken retractor
- (7) Combination of above (specify):
- (8) Other automatic belt failure (specify):
- (9) Unknown

#### FIRST SEAT FRONTAL AIR BAGS

NOTES: Encode the applicable data for the driver and first seat passenger in the vehicle. The attribute for the variable may be found below. Restraint systems should be assessed during the vehicle inspection then coded on the Occupant Assessment Form.

	Driver	Passenger
Type of air bag?		
Flaps open at tear points?	<del>à</del>	
Flaps damaged?	J	
Air bag damaged?	<i>Ø1</i>	
Source of air bag damage	<i>δ</i> /	
Air bag tethered?	a	
Air bag have vent ports?	a	
Other occupant contact air bag?	φ	
Occupant wearing eyewear?	á	

#### Type of Air Bag

- (0) Not equipped/not available
- (1) Original manufacturer installed system
- (2) Retrofitted air bag
- (3) Replacement air bag
- (8) Unknown type of air bag
- (9) Unknown

# Did Air Bag Module Cover Flap(s) Open At Designated Tear Points?

- (0) Not equipped/not available
- (1) No
- (2) Yes
- (3) Deployed, unknown if flap(s) opened at designated tear points
- (7) Not deployed
- (8) Unknown if deployed
- (9) Unknown

# Were Air Bag Module Cover Flap(s) Damaged?

- (0) Not equipped/not available
- (1) No
- (2) Yes (specify):
- (3) Deployed, unknown if air bag module cover flap(s) damaged
- (7) Not deployed
- (8) Unknown if deployed
- (9) Unknown

#### Was There Damage To The Air Bag?

- (00) Not equipped/not available
- (01) Not damaged

#### Yes - Air Bag Damage

- (02) Ruptured
- (03) Cut
- (04) Torn
- (05) Holed (06) Burned
- (07) Abraded
- (88) Other damage (specify):
- (95) Damaged, details unknown
- (96) Deployed, unknown if damaged
- (97) Not deployed
- (98) Unknown if deployed
- (99) Unknown

#### Source of Air Bag Damage

- (00) Not equipped/not available
- (01) Not damaged
- (02) Object worn by occupant, (specify):
- (03) Object carried by occupant, (specify):
- (04) Adaptive/assistive controls, (specify):
- (05) Fire in vehicle
- (06) Thermal burns
- (07) Rescue or emergency efforts
- (88) Other damage source (specify):
- (95) Damaged, unknown source
- (96) Deployed, unknown if damaged
- (97) Not deployed
- (98) Unknown if deployed
- (99) Unknown

#### Was The Air Bag Tethered?

- (0) Not equipped/not available
- (1) No
- (2) Yes (specify number of tether straps):
- (3) Deployed, unknown if tethered
- (7) Not deployed
- (8) Unknown if deployed
- (9) Unknown

#### Did The Air Bag Have Vent Ports?

- (0) Not equipped/not available
- (1) No
- (2) Yes (specify number of vent ports):
- (3) Deployed, unknown if vent ports present
- (7) Not deployed
- (8) Unknown if deployed
- (9) Unknown

# Was the Air Bag in this Occupant's Position Contacted by Another Occupant?

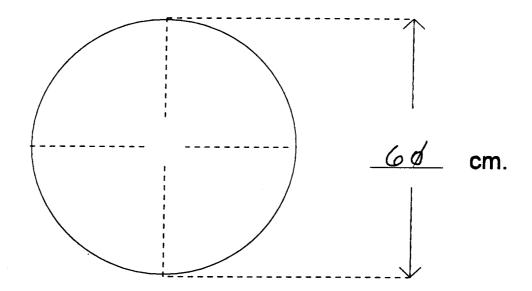
- (0) Not equipped/not available
- (1) No
- (2) Yes (specify):
- (3) Deployed, unknown if other occupant contact to air bag
- (7) Not deployed
- (8) Unknown if deployed
- (9) Unknown

#### Was This Occupant Wearing Eye-wear?

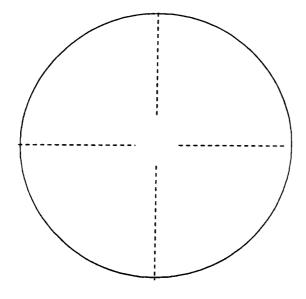
- (0) Not equipped/not available
- (1) No
- (2) Eyeglasses/sunglasses
- (3) Contact lenses
- (4) Deployed, unknown if eyewear worn
- (7) Not deployed
- (8) Unknown if deployed
- (9) Unknown

## DRIVER AIR BAG DAMAGE AND CONTACT SKETCHES

1. SKETCH DAMAGE AND CONTACT EVIDENCE ON DRIVER AIR BAG (Front)



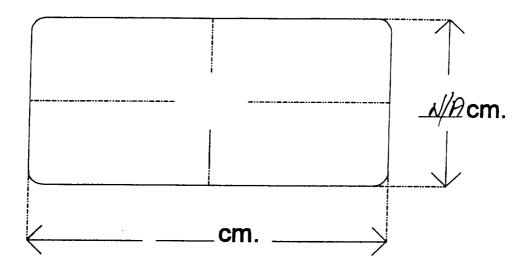
2. SKETCH DAMAGE AND CONTACT EVIDENCE ON DRIVER AIR BAG (Back)



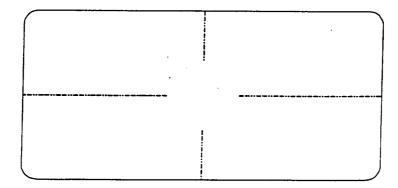
OPPER AIR BAC	SKETCHES (Contd)
3. DRIVER AIR BAG MODULE COVER FLAP SIZE (DOUBLE) a. Upper Flap  width (W <sub>u</sub> ) / 7 width (W <sub>L</sub> ) _ 7  height (H <sub>u</sub> ) / 7 height (H <sub>L</sub> ) _ 7  H,  H,  H,  H,  H,  H,  H,  H,  H,  H	
4. SKETCH OF OTHER TYPE OF AIR BAG MODULE FLAP AND SIZE	5. SKETCH OF OTHER TYPE OF AIR BAG VENT PORTS
	6. SKETCH LOCATION OF CIRCULAR AIR BAG VENT PORTS
	9 3 4 7 6 5

## PASSENGER AIR BAG DAMAGE AND CONTACT SKETCHES

1. SKETCH DAMAGE AND CONTACT EVIDENCE ON PASSENGER AIR BAG (Front)



2. SKETCH DAMAGE AND CONTACT EVIDENCE ON PASSENGER AIR BAG (Back)



PASSETIGER AIR BA	AG SKETCHES (Cont'd)
3. PASSENGER AIR BAG MODULE COVER FLAP SIZE (SINGLE) a. Flap	4. PASSENGER AIR BAG MODULE COVER FLAP SIZE (DOUBLE)
width (W)	a. Upper Flap b. Lower Flap
height (H)	width (W <sub>u</sub> ) width (W <sub>L</sub> )
	height (H <sub>u</sub> ) height (H <sub>L</sub> )
	#. W. — H. H. W. — M. M.
5. SKETCH OF OTHER TYPE OF AIR BAG MODULE FLAP AND SIZE	6. SKETCH OF OTHER TYPE OF AIR BAG VENT PORTS
•	7. SKETCH LOCATION OF RECTANGULAR AIR BAG VENT PORTS  10 11 12 1 2
r.	8 7 6 5 4

# HEAD RESTRAINTS/SEAT EVALUATION

NOTES: Encode the applicable data for each seat position in the vehicle. The attribute for these variables may be found at the bottom of the page. Head restraint type/damage and seat type/performance should be assessed during the vehicle inspection then coded on the Occupant Assessment Form.

		Left	Center	Right
	Head Restraint Type/Damage	3		3
F	Seat Type	<i> </i>		Ø2
R	Seat Performance			1
S	Seat Orientation			1
Т	Seat Track Position	9		9
	Seat Back Incline Pre/Post Impact	9		9
	Head Restraint Type/Damage	1	d	
s	Seat Type	0,5	05	05
S E C	Seat Performance	1		77
0	Seat Orientation	1	i	1 i
N D	Seat Track Position	Φ/	0/	di/
	Seat Back Incline Pre/Post Impact	<i>Φ</i> /	4/	6/
	Head Restraint Type/Damage		7	
т	Seat Type			
Ĥ	Seat Performance			
Ŕ	Seat Orientation			
D	Seat Track Position			
	Seat Back Incline Pre/Post Impact	<i></i>	/	· · · · · · · · · · · · · · · · · · ·
	Head Restraint Type/Damage			
ō	Seat Type		,	
H	Seat Performance			
E R	Seat Orientation			
	Seat Track Position			
	Seat Back Incline Pre/Post Impact			

DESCRIBE ANY INDICATION OF ABNORMAL OCCUPANT POSTURE (I.E., UNUSUAL OCCUPANT CONTACT PATTERN)

Occupant not seated or no seat

Moved to completely rearward

Moved to rearward midrange

Retained pre-impact position

Moved to forward midrange

Moved to completely forward

Moved to completely rearward

Moved to rearward midrange

Retained pre-impact postion

Moved to forward midrange

Moved to completely forward

Moved to slightly forward position

Moved to upright position

Moved to slightly rearward position

Moved to slightly forward position

Seat Back Incline Prior and Post

Not adjustable

Upright prior to impact

position

position

position

position

position

position

position

position

Slightly reclined prior to impact

**impact** 

(OO)

(01)

(11)

(12)

(13)

(14)

(15)

(16)

(17)

(22)

(23)

(24)

(26)

(27)

## HEAD RESTRAINTS/SEAT EVALUATION

#### Head Restraint Type/Damage by Occupant at This Occupant **Position**

- (0) No head restraints
- (1) Integral no damage(2) Integral damaged during accident
- (3) Adjustable no damage(4) Adjustable damaged during
- accident
- Add-on no damage Add-on damaged during accident

Seat Type (this Occupant Position) (00) Occupant not seated or no seat

Bucket with folding back

Bench with separate back

Bench with folding back(s)

Split bench with separate back

Split bench with folding back(s)

(8) Other Specify):

(01)

(02)

(03)

(04)

(05)

(06)

(80)

(9) Unknown

Bucket

Bench

cushions

cushions

supported)

#### Seat Performance (this Occupant Position)

- Occupant not seated or no seat
- No seat performance failure(s)
- Seat adjusters failed
- (3)Seat back folding locks or "seat back" failed (specify):
- Seat tracks/anchors failed
- Deformed by impact of occupant
- (6) Deformed by passenger compartment intrusion (specify):
- (7) Combination of above (specify):
- (8) Other (specify):
- (9) Unknown

- Forward facing seat
- Rear facing seat
- Side facing seat (outward)
- (9) Unknown

#### Seat Orientation (this Occupant Position)

- Occupant not seated or no seat
- (3) Side facing seat (inward)
- (8) Other (specify):

#### Completely reclined prior to impact Retained pre-impact position (31)

- (32)Moved to rearward midrange
- position
- (33)Moved to slightly rearward position
- Moved to upright position (34)
- (35) Moved to slightly forward position
- (36) Moved to forward midrange position
- (37)Moved to completely forward position
- (99) Unknown

#### (09)Other seat type (specify): Box mounted seat (i.e., van (10)

Pedestal (i.e., column

type)

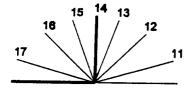
(99)Unknown

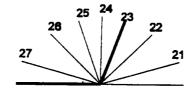
#### Seat Track Adjusted Position Prior To **Impact**

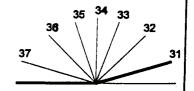
- Occupant not seated or no seat
- (1) Non-adjustable seat track

#### Adjustable Seat Track

- Seat at forward most track position
- (3) Seat between forward most and middle track positions
- Seat at middle track position
- Seat between middle and rear most track positions
- Seat at rear most track position
- (9) Unknown







Coding diagrams for Seat Back Incline Position Prior and Post Impact

DESCRIBE ANY INDICATION OF ABNORMAL OCCUPANT POSTURE (I.E., UNUSUAL OCCUPANT CONTACT PATTERN)

	Y SEAT FIELD ASSESSMENT						
When a child safety seat is present enter the o occupant's number using the codes listed below	ccupant's number in the first row and complete the column below the Complete a column for each child safety seat present.						
Occupant Number							
Type of Child     Safety Seat							
Child Safety Seat     Orientation							
Child Safety Seat     Harness Usage							
Child Safety Seat     Shield Usage							
5. Child Safety Seat Tether Usage							
6. Child Safety Seat Make/Model	Specify Below for Each Child Safety Seat						
Type of Child Safety Seat	3. Child Safety Seat Harness Usage						
<ul><li>(0) No child safety seat</li><li>(1) Infant seat</li><li>(2) Toddler seat</li><li>(3) Convertible seat</li></ul>	<ul> <li>4. Child Safety Seat Shield Usage</li> <li>5. Child Safety Seat Tether Usage Note: Options Below Are Used for Variables 3-5.</li> <li>(00) No child safety seat</li> </ul>						
<ul><li>(4) Booster seat</li><li>(7) Other type child safety seat (specify):</li></ul>							
(8) Unknown child safety seat type (9) Unknown if child safety seat used	Not Designed with Harness/Shield/Tether (01) After market harness/shield/tether added, not used						
Child Safety Seat Orientation     (00) No child safety seat	(02) After market harness/shield/tether used (03) Child safety seat used, but no after market						
Designed for Rear Facing for This Age/Weight (01) Rear facing	harness/shield/tether added (09) Unknown if harness/shield/tether added or used						
(02) Forward facing (08) Other orientation (specify):	Designed With Harness/Shield/Tether (11) Harness/shield/tether not used (12) Harness/shield/tether used						
(09) Unknown orientation	(19) Unknown if harness/shield/tether used						
Designed for Forward Facing for This Age/Weight (11) Rear facing (12) Forward facing (18) Other orientation (specify):	Unknown If Designed With Harness/Shield/Tether (21) Harness/shield/tether not used (22) Harness/shield/tether used (29) Unknown if harness/shield/tether used						
(19) Unknown orientation	(99) Unknown if child safety seat used						
Unknown Design or Orientation For This Age/Weight, or Unknown Age/Weight (21) Rear facing	Child Safety Seat Make/Model     (Specify make/model and occupant number)						
(22) Forward facing (28) Other orientation (specify):							
(29) Unknown orientation							
(99) Unknown if child safety seat used							

EJECTION No [/] Yes [ ] Describe indications of ejection and	body parts	involved in p	partial ejection(s	):			
			1-1-2				
Occupant Number							
Ejection							
(Note on Vehicle Interior Sketch) Ejection Area							
Ejection Medium							
Medium Status							
ection (1) Complete ejection (2) Partial ejection (3) Ejection, Unknown degree (9) Unknown ection Area 1) Windshield 2) Left front (3) Right front (4) Left rear (5) Right rear	(9) U  Ejection (1) Do (2) No (3) Fig.	noof ther area (e.ckup, etc.) (s nknown n Medium noor/hatch/tail nonfixed roof s ked glazing nofixed glazin	specify):  gate structure	(8) Of (9) Ur (9) Wedium to Impact (1) Op (2) Cld	en osed egral structu	n (specify):	Prior
TRAPMENT No [V] Yes [ ] scribe entrapment mechanism:							
nponent(s):							<del></del>



National Highway Traffic Safety Administration	NATIONAL ACCIDENT SAMPLING SYST  CRASHWORTHINESS DATA SYST
Primary Sampling Unit Number	OCCUPANT'S SEATING
2. Case Number - Stratum <u>DS/-95-SP-Ø/3</u>	
3. Vehicle Number $\phi$ $\supset$	Front Seat (11) Left side
4. Occupant Number	(12) Middle (13) Right side
OCCUPANT'S CHARACTERISTICS	(14) Other (specify):
5. Occupant's Age Code actual age at time of accident. (00) Less than one year old (specify by month):  (97) 97 years and older (99) Unknown  6. Occupant's Sex (1) Male (2) Female-not reported pregnant (3) Female-pregnant-1st trimester(1st-3rd month) (4) Female-pregnant-2nd trimester(4th-6th month) (5) Female-pregnant-3rd trimester(7th-9th month) (6) Female-pregnant-term unknown (9) Unknown  7. Occupant's Height Code actual height to the nearest centimeter. (999) Unknown inches X 2.54 =centimeters  8. Occupant's Weight Code actual weight to the nearest kilogram. (999) Unknown pounds X .4536 =kilograms  9. Occupant's Role (1) Driver (2) Passenger (9) Unknown	(14) Other (specify): (15) On or in the lap of another occupant  Second Seat (21) Left side (22) Middle (23) Right side (24) Other (specify): (25) On or in the lap of another occupant  Third Seat (31) Left side (32) Middle (33) Right side (34) Other (specify): (35) On or in the lap of another occupant  Fourth Seat (41) Left side (42) Middle (43) Right side (44) Other (specify): (45) On or in the lap of another occupant  (97) In or on unenclosed area (98) Other seat (specify): (99) Unknown  11. Occupant's Posture (0) Normal posture  Abnormal posture (1) Kneeling or standing on seat (2) Lying on or across seat (3) Kneeling, standing or sitting in front of seat (4) Sitting sideways or turned to talk with another occupant or to look out a rear window (5) Sitting on a console (6) Lying back in a reclined seat position (7) Bracing with feet or hands on a surface in front of seat (8) Other abnormal posture (specify): (9) Unknown
·.	BEST AVAILABLE
	DEST HYMICHDLE

EJE	ECTION/E	NTRAPMENT
12. Ejection (0) No ejection (1) Complete ejection (2) Partial ejection (3) Ejection, unknown degree (9) Unknown	$\phi$	15. Medium Status (Immediately Prior To Impact) (0) No ejection (1) Open (2) Closed (3) Integral structure (9) Unknown
13. Ejection Area (0) No ejection (1) Windshield (2) Left front (3) Right front (4) Left rear (5) Right rear (6) Rear (7) Roof (8) Other area (e.g., back of pickup, etc.) (specify): (9) Unknown	<u>Φ</u>	16. Entrapment (0) Not entrapped/exit not inhibited (1) Entrapped/pinned - mechanically restrained (2) Could not exit vehicle due to jammed doors, fire, etc. (specify):
14. Ejection Medium (0) No ejection (1) Door/hatch/tailgate (2) Nonfixed roof structure (3) Fixed glazing (4) Nonfixed glazing (specify):  (5) Integral structure (8) Other medium (specify):  (9) Unknown	<u>φ</u>	<ul> <li>(1) Removed from vehicle while unconscious or disoriented</li> <li>(2) Removed from vehicle due to injuries</li> <li>(3) Exited vehicle with some assistance</li> <li>(4) Exited vehicle under own power</li> <li>(5) Occupant fully ejected</li> <li>(9) Unknown</li> </ul>
	•	

BELT SYSTE	EM FUNCTION
18. Manual (Active) Belt System Availability (0) None available (1) Belt removed/destroyed	22. Shoulder Belt Upper Anchorage Adjustment (0) No shoulder belt (1) No upper anchorage adjustment for shoulder belt
(1) Belt removed/destroyed (2) Shoulder belt	(1) No upper anchorage adjustment for shoulder belt
(3) Lap belt (4) Lap and shoulder belt (5) Belt available—type unknown	Adjustable shoulder Belt Upper Anchorage (2) In full up position (3) In mid position
	(4) In full down position
Integral Belt Partially Destroyed  (6) Shoulder belt (lap belt destroyed/removed)  (7) Lap belt (shoulder belt destroyed/removed)	<ul><li>(5) Position unknown</li><li>(9) Unknown if position has adjustable upper anchorage adjustment</li></ul>
(8) Other belt (specify):  (9) Unknown	23. Automatic (Passive) Belt System Availability/
4 4	Function (0) Not equipped/not available (1) 2 point automatic belts
19. Manual (Active) Belt System Use (00) None used, not available, or belt removed/destroyed	<ul> <li>(1) 2 point automatic belts</li> <li>(2) 3 point automatic belts</li> <li>(3) Automatic belts - type unknown</li> </ul>
(01) Inoperative (specify):	Non-functional
(02) Shoulder belt (03) Lap belt (04) Lap and shoulder belt	(4) Automatic belts destroyed or rendered inoperative (9) Unknown
(04) Lap and shoulder belt (05) Belt used—type unknown (08) Other belt used (specify):	24. Automatic (Passive) Belt System Use (0) Not equipped/not available/destroyed or rendered inoperative
<ul><li>(12) Shoulder belt used with child safety seat</li><li>(13) Lap belt used with child safety seat</li></ul>	(1) Automatic belt in use (2) Automatic belt not in use (manually
(14) Lap and shoulder belt used with child safety seat	disconnected, motorized track inoperative) (specify):
(15) Belt used with child safety seat—type unknown (18) Other belt used with child safety seat	(3) Automátic belt use unknown (9) Unknown
(specify): (99) Unknown if belt used	25. Automatic (Passive) Belt System Type (0) Not equipped/not available (1) Non-motorized system
20. Proper Use of Manual (Active) Belts (0) None used or not available	(2) Motorized system (9) Unknown
Belt used properly     Belt used properly with child safety seat	26. Proper Use of Automatic (Passive) Belt System
Belt Used Improperly	(0) Not equipped/not available/not used
(3) Shoulder belt worn under arm	(1) Automatic belt used properly (2) Automatic belt used properly with
(4) Shoulder belt worn behind back or seat (5) Belt worn around more than one person	child safety seat
(6) Lap belt worn on abdomen (7) Lap belt or lap and shoulder belt used	Automatic Belt Used Improperly (3) Automatic shoulder belt worn under arm
improperly with child safety seat (specify):	(4) Automatic shoulder belt worn behind back (5) Automatic belt worn around more than
(8) Other improper use of manual belt system (specify):	one person (6) Lap portion of automatic belt worn on abdomen
(9) Unknown	(7) Automatic lap and shoulder belt or
21. Manual (Active) Belt Failure Modes During Accident	automatic shoulder belt used improperly with child safety seat (specify):
(0) No manual belt used or not available	(8) Other improper use of automatic belt system
(1) No manual belt failure(s) (2) Torn webbing (stretched webbing not	(specify) (9) Unknown
included) (3) Broken buckle or latchplate	$\mathcal{A}$
(4) Upper anchorage separated	27. Automatic (Passive) Belt Failure Modes During Accident
(5) Other anchorage separated (specify):	<ul><li>(0) Not equipped/not available/not in use</li><li>(1) No automatic belt failure(s)</li></ul>
(6) Broken retractor (7) Combination of above (specify):	(0) Not equipped/not available/not in use (1) No automatic belt failure(s) (2) Torn webbing (stretched webbing not included) (3) Broken buckle or latchplate (4) Upper anchorage separated
(8) Other manual belt failure (specify):	<ul><li>(4) Upper anchorage separated</li><li>(5) Other anchorage separated (specify):</li></ul>
(9) Unknown	<ul><li>(6) Broken retractor</li><li>(7) Combination of above (specify):</li><li>(8) Other automatic belt failure (specify):</li></ul>
1	(9) Unknown

POLICE REPORTED RESTRAINT USE	AIR BAG SYSTEM FUNCTION					
28. Police Reported Belt Use  (0) None used (1) Police did not indicate belt use (2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt (5) Belt used, type not specified (6) Child safety seat (7) Automatic belt (8) Other type belt, (specify):	30. Frontal Air Bag System Availability/Function (This Occupant Position) (0) Not equipped/not available (1) Air bag  Non-functional (2) Air bag disconnected (specify):  (3) Air bag not reinstalled (9) Unknown					
(9) Police indicated "unknown"  29. Police Reported Air Bag Availability/Function (0) No air bag available (1) Police did not indicate air bag availability/function (2) Deployed (3) Not deployed (4) Unknown if deployed (9) Police indicated "unknown"	31. Frontal Air Bag System Deployment (This Occupant Position) (0) Not equipped/not available (1) Deployed during accident (as a result of impact) (2) Deployed inadvertently just prior to accident (3) Deployed, details unknown (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (5) Unknown if deployed (7) Nondeployed (9) Unknown					
Check the Primary Source Used In Determining Belt Use.  [ ] Not equipped/not available/destroyed or rendered inoperative Vehicle inspection [ ] Official injury data [ ] Driver/occupant interview [ ] Other (specify):	32. Other Than First Seat Frontal Air Bag Availability/Function (This Occupant Position) (0) Not equipped/not available (1) Air bag  Non-functional (2) Air bag disconnected (specify):  (3) Air bag not reinstalled (9) Unknown Specify type of "other" air bag present:  33. Air Bag(s) Deployment, Other Than First Seat Frontal (This Occupant Position) (0) Not equipped with an "other" air bag (1) Deployed during accident (as a result of impact) (2) Deployed inadvertently just prior to accident					
	(3) Deployed, details unknown (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (5) Unknown if deployed (7) Nondeployed (9) Unknown  34. Are There Indications of Air Bag System Failure? (This Occupant Position) (0) Not equipped/not available (1) No (2) Yes (specify):					

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for the impact syment udinal Delta V
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/; ) ) ()

FIRST SEAT FRONTAL AIR BAG SYSTEM EVALUATION continued	HEAD RESTRAINT AND SEAT EVALUATION
44. Source of Air Bag Damage (00) Not equipped/not available (01) Not damaged (02) Object worn by occupant, (specify):  (03) Object carried by occupant, (specify):  (04) Adaptive/assistive controls, (specify):  (05) Fire in vehicle (06) Thermal burns (07) Rescue or emergency efforts (88) Other damage source (specify):  (95) Damaged, unknown source (96) Deployed, unknown if damaged (97) Not deployed (98) Unknown if deployed (99) Unknown	49. Head Restraint Type/Damage by Occupant at This Occupant Position (0) No head restraints (1) Integral—no damage (2) Integral—damaged during accident (3) Adjustable—no damage (4) Adjustable—damaged during accident (5) Add-on—no damage (6) Add-on—damaged during accident (8) Other (specify):  (9) Unknown  50. Seat Type (this Occupant Position) (00) Occupant not seated or no seat (01) Bucket (02) Bucket with folding back (03) Bench (04) Bench with separate back cushions
45. Was The Air Bag Tethered? (0) Not equipped/not available (1) No (2) Yes (specify number of tether straps):	(05) Bench with folding back(s) (06) Split bench with separate back cushions (07) Split bench with folding back(s) (08) Pedestal (i.e., column supported) (09) Box mounted seat (i.e., van type) (10) Other seat type (specify):
(3) Deployed, unknown if tethered (7) Not deployed (8) Unknown if deployed (9) Unknown  46. Did The Air Bag Have Vent Ports? (0) Not equipped/not available (1) No (2) Yes (specify number of vent ports):	(99) Unknown  51. Seat Orientation (this Occupant Position) (0) Occupant not seated or no seat (1) Forward facing seat (2) Rear facing seat (3) Side facing seat (inward) (4) Side facing seat (outward) (8) Other (specify):
(3) Deployed, unknown if vent ports present (7) Not deployed (8) Unknown if deployed (9) Unknown  47. Was the Air Bag in this Occupant's Position Contacted by Another Occupant? (0) Not equipped/not available (1) No (2) Yes (specify):	(9) Unknown  52. Seat Track Adjusted Position Prior To Impact (0) Occupant not seated or no seat (1) Non-adjustable seat track  Adjustable Seat Track (2) Seat at forward most track position (3) Seat between forward most and middle track positions
<ul> <li>(3) Deployed, unknown if other occupant contact to air bag</li> <li>(7) Not deployed</li> <li>(8) Unknown if deployed</li> <li>(9) Unknown</li> </ul>	<ul> <li>(4) Seat at middle track position</li> <li>(5) Seat between middle and rear most track positions</li> <li>(6) Seat at rear most track position</li> <li>(9) Unknown</li> </ul>
48. Was This Occupant Wearing Eye-wear?  (0) Not equipped/not available (1) No (2) Eyeglasses/sunglasses (3) Contact lenses (4) Deployed, unknown if eyewear worn (7) Not deployed (8) Unknown if deployed (9) Unknown	BEST AVAILABLE

#### HEAD RESTRAINT AND SEAT EVALUATION continued

- 53. Seat Back Incline Prior and Post Impact
  - (00) Occupant not seated or no seat
  - (01) Not adjustable

#### Upright prior to impact

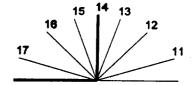
- (11) Moved to completely rearward position
- (12) Moved to rearward midrange position
- (13) Moved to slightly rearward position
- (14) Retained pre-impact position
- (15) Moved to slightly forward position
- (16) Moved to forward midrange position
- (17) Moved to completely forward position

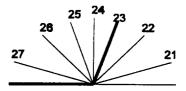
#### Slightly reclined prior to impact

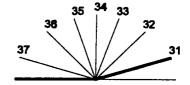
- (21) Moved to completely rearward position
- (22) Moved to rearward midrange position
- (23) Retained pre-impact position
- (24) Moved to upright position
- (25) Moved to slightly forward position
- (26) Moved to forward midrange position
- (27) Moved to completely forward position

#### Completely reclined prior to impact

- (31) Retained pre-impact position
- (32) Moved to rearward midrange position
- (33) Moved to slightly rearward position
- (34) Moved to upright position
- (35) Moved to slightly forward position
- (36) Moved to forward midrange position
- (37) Moved to completely forward position
- (99) Unknown
- 54. Seat Performance (this Occupant Position)
  - (0) Occupant not seated or no seat
  - (1) No seat performance failure(s)
  - (2) Seat adjusters failed
  - (3) Seat back folding locks or "seat back" failed (specify):
  - (4) Seat track/anchors failed
  - (5) Deformed by impact of occupant
  - (6) Deformed by passenger compartment intrusion, (specify):
  - (7) Combination of above (specify):
  - (8) Other (specify):
  - (9) Unknown







CHILD SAFETY SEAT

## 55. Child Safety Seat Make/Model (000) No child safety seat Applicable codes are found in your NASS CDS Data Collection, Coding and Editing (950) Built-in child safety seat (997) Other make/model (specify): (998) Unknown make/model (999) Unknown if child safety seat used 56. Type of Child Safety Seat (0) No child safety seat (1) Infant seat (2) Toddler seat (3) Convertible seat (4) Booster seat - with shield (5) Booster seat - without shield (7) Other type child safety seat (specify): (8) Unknown child safety seat type (9) Unknown if child safety seat used 57. Child Safety Seat Orientation (00) No child safety seat Designed for Rear Facing for This Age/Weight (01) Rear facing (02) Forward facing (08) Other orientation (specify): (09) Unknown orientation Designed For Forward Facing for This Age/Weight (11) Rear facing (12) Forward facing (18) Other orientation (specify): (19) Unknown orientation Unknown Design or Orientation For This Age/Weight, or Unknown Age/Weight (21) Rear facing (22) Forward facing (28) Other orientation (specify): (29) Unknown orientation (99) Unknown if child safety seat used

- 58. Child Safety Seat Harness Usage
- $\phi \phi$
- 59. Child Safety Seat Shield Usage
- $\phi \phi$
- 60. Child Safety Seat Tether Usage



Note: Options below applicable to Variables OA58-OA60.

(00) No child safety seat

### Not Designed With Harness/Shield/Tether

- (01) After market harness/shield/tether added, not used
- (02) After market harness/shield/tether used
- (03) Child safety seat used, but no after market harness/shield/tether added
- (09) Unknown if harness/shield/tether added or used

#### Designed With Harness/Shield/Tether

- (11) Harness/shield/tether not used
- (12) Harness/shield/tether used
- (19) Unknown if harness/shield/tether used

#### Unknown If Designed With Harness/Shield/Tether

- (21) Harness/shield/tether not used
- (22) Harness/shield/tether used
- (29) Unknown if harness/shield/tether used
- (99) Unknown if child safety seat used

	INJURY CONSEQUENCES		
(0 (1) (2) (3) (4) (5)	ury Severity (Police Rating)  O - No injury C - Possible injury B - Nonincapacitating injury A - Incapacitating injury K - Killed U - Injury, severity unknown Died prior to accident Unknown	9	63. Type Of Medical Facility (for Initial Treatment) (0) Not treated at a medical facility (1) Trauma center (2) Hospital (3) Medical clinic (4) Physician's office (5) Treatment later at medical facility (8) Other (specify):
(0) (1) (2) <b>No</b> (3) (4) (5) (6) (7)	eatment - Mortality No treatment Fatal Fatal - ruled disease (specify):  Infatal Hospitalization Transported and released Treatment at scene - nontransported Treatment later Treatment - other (specify):  Transported to a medical facility-unknown if treated Unknown	3	64. Hospital Stay (00) Not HospitalizedCode the number of days (up through 60) that the occupant stayed in hospital. (61) 61 days or more (99) Unknown  65. Working Days LostCode the number of days (up through 60) that the occupant lost from work due to the accident (00) No working days lost (61) 61 days or more (62) Fatally injured (97) Not working prior to accident (99) Unknown
99. (0) (1) (2)	Case Occupant Not the Case Occupant This is the Case Occupant This is the Case Occupant in another case.		
	This is the Case Occupant in		

## **STOP WORK HERE**

**VARIABLES 66-74** 

TO BE CODED BY THE ZONE CENTER

BEST AVAILABLE

# TO BE CODED BY THE ZONE CENTER

INJURY CONSEQUENCES		TRAUMA DATA
66. Time to Death Code number of hours from time of accident to time of death up through 24 hours. If time of death is greater than 24 hours, code number of days. (Note: 1 day = 31, 2 days = 32, n days = 30 +n up through 30 days = 60) (00) Not fatal (96) Fatal - ruled disease (99) Unknown	φφ	71. Glasgow Coma Scale (GCS) Score (at Medical Facility) (00) Not injured (01) Injured - not treated at medical facility (02) No GCS Score at medical facility (03-15) Code the actual value of the initial GCS Score recorded at medical facility. (97) Injured, details unknown (99) Unknown if injured
67. 1st Medically Reported Cause of Death  68. 2nd Medically Reported Cause of Death  69. 3rd Medically Reported Cause of Death  Code the Occupant Injury from line number(s) for the medically reported injury(s) which reportedly contributed to this occupant's death  (00) Not fatal or no additional causes  (96) Mode of death given but specific injuries are not linked to cause of death. (specify):  (97) Other result (includes fatal ruled)	φφ φφ φφ	72. Was the Occupant Given Blood?  (1) No - blood not given (2) Yes - blood given (specify units): (9) Unknown if blood given  73. Arterial Blood Gases (ABG) – HCO <sub>3</sub> (00) Not injured (01) Injured, ABGs not measured or reported (02-50) Code the actual value of the HCO <sub>3</sub> (96) ABGs reported, HCO <sub>3</sub> unknown (97) Injured, details unknown (99) Unknown if injured
disease) (specify):  (99) Unknown  70. Number of Recorded Injuries for This Occupant Code the actual number of injuries recorded for this occupant.  (00) No recorded injuries  (97) Injured, details unknown  (99) Unknown if injured	<u>7</u>	74. Primary Source of Belt Use Determination (0) Not equipped/not available/destroyed or rendered inoperative (1) Vehicle inspection (2) Official injury data (3) Driver/occupant interview (8) Other (specify):
		BEST AVAILABLE

U.S. Department of Transportation

OCCUPANT INJURY FORM

BEST AVAILABLE

Form Approved O.M.B. No. 2127-002

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

National Highway Traffic Safety Administration

1. Primary Sampling Unit Number

3. Vehicle Number

2. Case Number - Stratum

4. Occupant Number

#### **INJURY DATA**

Record below the actual injuries sustained by this occupant that were identified from the official and unofficial data sources. Remember not to double count an injury just because it was identified from two different sources. If greater than ten injuries have been documented, encode the balance on the Occupant Injury Supplement.

	Source of Injury Data	Body Region	Type of Anatomic Structure	A.I.S 9 Specific Anatomic Structure	0 Level of Injury	A.I.S. Severity	Aspect	Injury Source	Injury Source Confidence Level	Occupant Direct/ Indirect Injury	Area Intrusion Number	ICD-9
1st	5. <u>Q</u>	6,	7. <u>6</u>	в. <b>Д</b> Д	9. <u>\$1</u> .Z	10. <u>2</u>	11. Ø 12	<u> 40</u> ]	<u> 13. /</u>	14	15. <u>ØØ</u>	8 <u>sø. /</u>
2nd	16. <u>R</u>	17.	18. <u>#</u>	12. <u>Ø 6</u>	20. <u>84</u>	21. <u>3</u>	22. 1_23	φφ1	_ 24. <u> </u>	25	26. <u>66</u>	8 <u>12. ø</u>
3rd	27_2	28. <u></u>	29. <u>9</u>	30. <u>\$4</u>	31 <u>Ø</u> Z	32 <u> </u>	33. <u>2</u> 34.	<u> </u>	£ 35. <u>L</u>	36	37. <u>ØØ</u>	922.2
4th	38. <u>A</u>	39. <u>8</u>	40. <u>9</u>	41. <u>Ø Z</u>	42. <u>\$\$</u>	43. <u>1</u>	44. 145.	<u>\$11</u>	_ 46. <u>_</u>	47. <u>/</u> _	48. <i>JU</i>	916.6
5th	49. 💫	50. <u>Ø</u>	51. <u>9</u>	52 <u>Ø 4</u>	53. <u>#2</u>	54	55. <u> </u>	<b>Ø</b> LL	57	58. 🖊	59 <u>Ø6</u>	9 <u>34.1</u> 1
6th	60. <u>A</u>	61. <u>8</u>	62 <u>9</u>	53. <u>Ø 6</u>	64 <u>Ø2</u>	65. <u>/</u>	66. <u>L</u> 67.	ØLL	68	69	70. <u>I O</u>	8 <u>91.ø</u>
7 <b>th</b>	71.2	72. <u>8</u>	73. <u>S</u> :	74. <u>26</u>	15. <u>4</u> 2	76. <u>2</u>	77 <u>L</u> 78.	25Z	7 79	80. <u> </u>	n <u>ØØ</u>	8Ø8·\$
3th	82	83	84 {	95	86	87	8889.		90	91 9	2	
9th	93	94	95, 9	06:	97	98	99100.		101	102 10	03	
10th	104	105	106 10	071	08	109	110,111,		112	113 11	14	

#### OCCUPANT INJURY CLASSIFICATION

#### **Body Region**

- Head
- (2)Face
- (3)Neck
- (4)Thorax
- (5) Abdomen
- (6) Spine (7) Upper Extremity
- (8) Lower Extremity
- (9) Unspecified

#### Type of Anatomic Structure

- Whole Area (1)
- Vessels
- (2) (3) Nerves
- (4) Organs (includes Muscles/ligaments)
- (5) Skeletal (includes joints)
- (6)Head - LOC
- (9) Skin

#### **Specific Anatomic** Structure

Vessels, Nerves, Organs. Bones, Joints are assigned consecutive two digit numbers beginning with 02.

The exceptions to this rule apply to:

#### Whole Area

- Skin Abrasion (02)
- (04) Skin Contusion
- (06) Skin Laceration
- (08) Skin Avulsion
- (10) Amputation
- (20) Burn
- (30) Crush
- (40)Degloving
- (50) Injury - NFS
- (90)Trauma, other than mechanical

#### Head - LOC

- (02) Length of LOC
- (04) Level
- (06) of
- (08) Consciousness
- (10) Concussion

#### Spine

- (02) Cervical
- (04)Thoracic
- (06)Lumbar

#### Level of Injury

Specific injuries are assigned consecutive two-digit numbers beginning with 02.

To the extent possible, within the organizational framework of the AIS, 00 is assigned to an injury NFS as to severity or where only one injury is given in the dictionary for that anatomic structure. 99 is assigned to any injury NFS as to lesion or severity.

#### Abbreviated Injury Scale

- Minor Injury
- Moderate Injury
- Serious Injury
- (2) (3) (4) Severe Injury
- Critical Injury
- Maximum
- (untreatable) lnjured, unknown severity

#### **Aspect**

- Right
- (2) Left
- (3) Bilateral (4) Central
- (5) Anterior
- (6)**Posterior**
- (7)Superior
- (8) Inferior
- **(9**) Unknown
  - Whole region

## SOURCE OF INJURY DATA

## <u>OFFICIAL RECORDS</u>

- (1) Autopsy records with or without hospital/medical records
- (2) Hospital/medical records other than emergency room (e.g., discharge summary)
- (3) Emergency room records only (including associated X-rays or other lab reports)
- (4) Private physician, walk-in or emergency clinic

#### **UNOFFICIAL RECORDS**

- (5) Lay coroner report
- (6) E.M.S. personnel
- (7) Interviewee
- (8) Other source (specify):
- (9) Police

#### DIRECT/INDIRECT INJURY

INJURY SOURCE

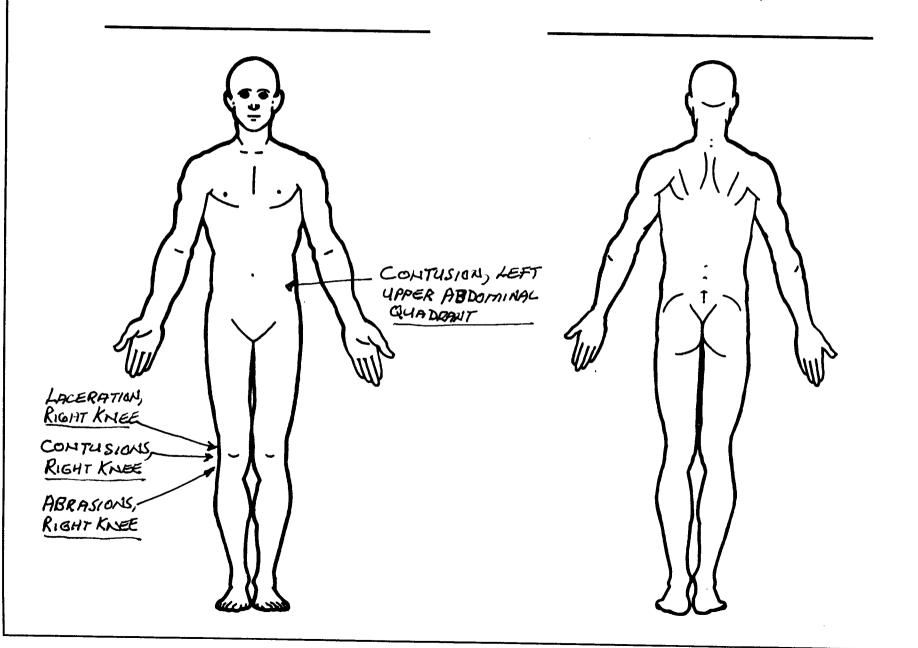
**CONFIDENCE LEVEL** 

- (1) Certain
- Probable Possible
- (9) Unknown

- Direct contact injury
- (2) Indirect contact injury
- Noncontact injury
- Injured, unknown source

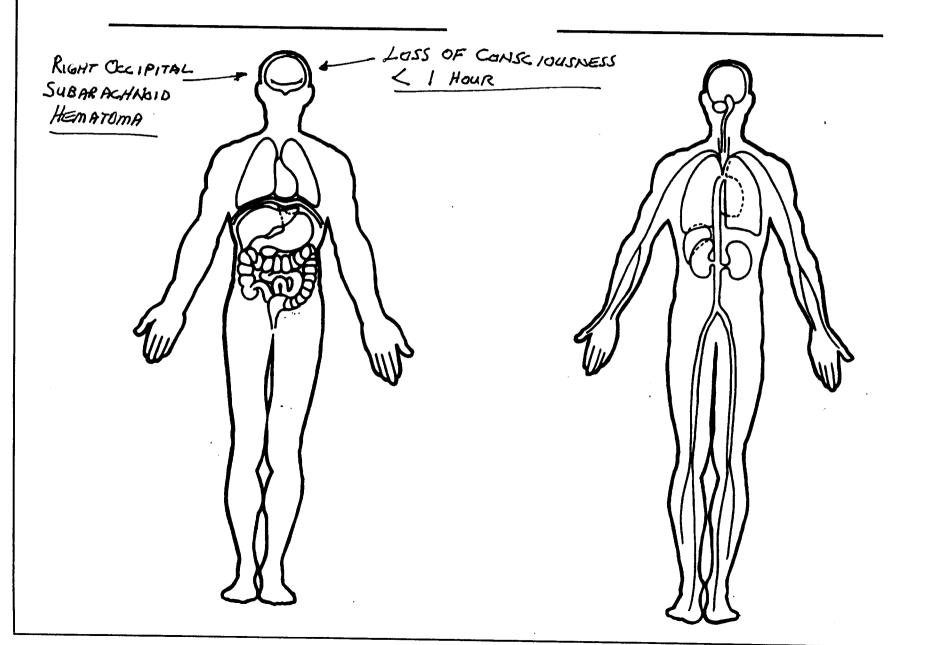
			INJURY	sou	RCES		
FRO	NT	(102)	2) Right side hardware or	(183)	3) Air bag-passenger side and	(411)	) Wall mounted head rest (used
(001)	) Windshield		armrest	•	object held	` .	behind wheel chair)
(002)	) Mirror	(103)	3) Right A (A1/A2)-pillar	(184)	) Air bag-passenger side and	(412)	•
(003)		(104)	l) Right B-pillar		object in mouth		(specify):
(004)	•	(105)	i) Other right pillar (specify):	(185)	i) Air bag compartment		
(005)					cover-passenger side		
(006)	• ,	(106)	, .	(186)	) Air bag compartment	EXT	ERIOR of OCCUPANT'S
	of codes 004 and 005)	(107)	. •		cover-passenger side and	VEHI	ICLE
(007)	•	(108)	<b></b> .		eyewear	(451)	) Hood
	selector lever, other	(109)	•	(187)	• •	(452)	
·000	attachment		including one or more of the		cover-passenger side and		outside mirror, antenna)
(800)			following: frame, window sill,		jewelry	(453)	Other exterior surface or tires
(009)	1 7		A (A1/A2)-pillar, B-pillar, or	(188)	) Air bag compartment		(specify):
5 . <del>-</del>	deck, air conditioner)		roof side rail.		cover-passenger side and		<del></del>
(010)	•	(110)	• •		object held	(454)	Unknown exterior objects
	below		(specify):	(189)	Air bag compartment		
(011)	Center instrument panel and				cover-passenger side and	EXTE	ERIOR OF OTHER MOTOR
	below				object in mouth	VEHIC	CLE
(012)	Right instrument panel and	INTER	RIOR	(190)	Other air bag (specify)	(501)	Front bumper
	below	(151)	Seat, back support	-		(502)	•
(013)	Glove compartment door	(152)		(195)	Other air bag compartment	(503)	<b>~</b>
(014)	Knee bolster	(153)		•	cover (specify)	<b>.</b>	(specify):
(015)		•	frame attachment point		60101 (Sp. 15),		(apouny).
•	more of the following: front	(154)	·		-	(504)	Hood
	header, A (A1/A2)-pillar,	٠.	component (specify):	ROOF	<i>-</i>	(505)	Hood ornament
	instrument panel, mirror, or			(201)		(506)	Windshield, roof rail, A-pillar
	steering assembly (driver side	(155)	Head restraint system	(201)		(507)	Side surface
	only)	(160)	•	(202)		• •	
(016)		(1,	Olliel Goodpains (opening).	(203)		(508) (509)	Side mirrors Other side protossions
(· · · · ,	more of the following: front	(161)	Interior loose objects	(204)	<b>-</b>	(509)	Other side protrusions
	header, A (A1/A2)-pillar,	(162)	•	(200)	Roof or convertible top		(specify):
	instrument panel, or mirror	(102)	Crist salety seat (specify).	= OC	· <del>-</del>	(510)	± •
	•	(163)	Out interior ships (engrify):	FLOO!		(510)	Rear surface
(017)	(passenger side only) Windshield reinforced by	(100)	Other interior object (specify):		Floor (including toe pan)	(511)	Undercarriage
(017,	•			(252)		(512)	Tires and wheels
	exterior object (specify)	AID D			transmission lever, including	(513)	Other exterior of other motor
(040)	The state of the s	AIR BA			console		vehicle (specify):
(019)	Other front object (specify):			(253)	•		
		(171)	•	(254)	Foot controls including	(514)	Unknown exterior of other
			eyewear		parking brake		motor vehicle
LEFT S		_	• , ,				
(051)	Left side interior surface,	(173)	•	REAR		OTHER	R VEHICLE OR OBJECT IN
	excluding hardware or		held	(301)	Backlight (rear window)	THE E	NVIRONMENT
	armrests	(174)	Air bag-driver side and object	(302)	Backlight storage rack,		Ground
	Left side hardware or armrest		in mouth	•	door, etc.		Other vehicle or object
(053)	Left A (A1/A2)-pillar	(175)	Air bag compartment	(303)	Other rear object (specify):		(specify):
(054)	Left B-pillar	•	cover-driver side	<b>\</b> -			(3000),.
	Other left pillar (specify):	(176)				(599)	Unknown vehicle or object
-	· · · · · · · · · · · · · · · · · · ·		cover-driver side and eyewear	ADAP*	TIVE (ASSISTIVE) DRIVING	(652,	Official remote at anyone
(056)	Left side window glass		Air bag compartment	EQUIP		NONC	ONTACT INJURY
	Left side window frame		cover-driver side and jewelry		Hand controls for		
	Left side window sill						
·	Left side window glass		Air bag compartment		braking/acceleration		Flying glass
	including one or more of the		cover-driver side and object		_		Other noncontact injury
	<del>-</del>		held Air has compared mont		(attached to OEM steering		source
	following: frame, window sill,		Air bag compartment		wheel)		(specify):
	A (A1/A2)-pillar, B-pillar, or		cover-driver side and object in		Steering knob attached to		Air bag exhaust gases
	roof side rail.		mouth		steering wheel	(697)	Injured, unknown source
	Other left side object		Air bag-passenger side		Replacement steering wheel		
,	(specify):		Air bag-passenger side and	2	(i.e., reduced diameter)		
			eyewear	(406)	Joy stick steering controls		
		(182)	Air bag-passenger side and	(407)	Wheelchair tie-downs		
RIGHT :	SIDE	,	jewelry	(408)	Modification to seat belts,		
(101) F	Right side interior surface,				(specify):		
•	excluding hardware or				Additional or relocated		
ŧ	armrests				switches, (specify):		
				(410) F	Raised roof		
				( ,	THISCH TOO		

Indicate the Location, Specific Anatomic Structure, Detail (size, depth, fracture type, head injury clinical signs and neurological deficits), and Source of all injuries indicated by official sources (or from PAR or other unofficial sources if medical records and interviewee data are unavailable.)



	OFFICIAL INJURY DATA — SKELE	TAL INJURIES
Restrained?		
	Indicate the Location, Specific Anatomic Structure, Detail (size, depth, fracture type, head injuries of all injuries indicated by official sources (or from PAR or other unofficial sources if munavailable)	ry clinical signs and neurological deficits), and edical records and interviewee data are
	unavailable.)	
Blood Alcohol Level (mg/dl)	eve	
BAL =	bod)	
Glasgow Coma Scale Score		
GCSS =		
Units of Blood Given		
Units =		
Arterial Blood Gase	ises	
pH =		
PO <sub>2</sub> =		
PCO,	1 11 V // /	RIGHT BSTERIOR
HCO3		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
		FRACTURE BONE
	(M(N))	( FRAGMENTS)
	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
·		<b>\(\(\)</b>

Indicate the Location, Specific Anatomic Structure, Detail (size, depth, fracture type, head injury clinical signs and neurological deficits), and Source of all injuries indicated by official sources (or from PAR or other unofficial sources if medical records and interviewee data are unavailable.)





U.S. Department of Transportation National Highway Traffic Safety Administration

# CRASHPC PROGRAM SUMMARY NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

Identifying Title	201 05 00 4	10	4 /		
Primary Sampling Unit	DSI-95-SP-Ø Case NoStratum		Accident Event Sequence No.	Date (Month, day, ye	ar) of Run
CRASHPC Vehicle	Identification	<del>-</del>			
Vehicle 1	1983	DODGE	VAN		
Vehicle 2	19 91	TOYOTA	CELIC	A GTS	
	Year	Make		Model	NASS Veh. No.
	G	ENERAL II	NFORMATIO	N	ven. No.
	VEHICLE I			VEHICLE 2	
Size		1	Size		J
Weight			Weight		<del></del>
Curb Occupant(s)	$\mathcal{O} = / 9 7$	<u>රි</u> kg	12-77+	72 + Ø = 13	3 4 4 kg
CDC	72 FDE	117	Curb Occup	pant(s) Cargo	F 11/4
PDOF (-180 to +180)		100.	PDOF (-180 t	to +180)	2 1 1 1 1 1
Stiffness	, <del></del>	7	Stiffness	-	7 7 7
					<u> </u>
		***************************************	ORMATION		
Rest and Impact Pos	itions   No. Go To Da	un <b>age</b> informi	etion [ ]Yes		
	VEHICLE 1			VEHICLE 2	
Rest Position	х	m	Rest Position	x	m
1 0314011	Υ	m	Position	Υ	m
	PSI	<del></del> •		PSI	· · · · · · · · · · · · · · · · · · ·
Impact Position	X	. m	Impact	X	m
Postion	Υ	m	Impact Position	Υ	m
	PSI	•		PSI	•
Slip Angle(-180 to +1	80)	<u> </u>	Slip Angle (-18	30 to +180)	•
		VEHICLE	MOTION		
Sustained Contact [	]No []Yes				
	VEHICLE 1			VEHICLE 2	
ehicle Rotation	[ ] No	[ ]Yes	Vehicle Rotatio		]No []Yes
Rotation Stop Bef	**************************************	[ ] Yes	Rotation S	top Before Rest	]No []Yes
End of Dotation		• •	End of Rot Position	tation X	m
End of Rotation Position	×	m	Position	V	m
	PSI	· m		PSI	•
200000000000000000000000000000000000000			Curved Path	-	1Na 1174
Curved Path	[ ]No	[ ]Yes	Point on Pa		]No []Yes
Point on Path X	m Y	. m	x	m Y	m
		<del></del>	Rotation Directi	on I l None I	ICM [ ICEM
Rotation Direction	[]None []CW [	Iccm		0° []No []Yes	
Rotation >360° [ ]	No []Yes			( ) ( )	

FRICTION	INFORMATION	TRAJECTO	RY INFORMATION
Coefficient of Friction		Trajectory Data [ ]	No []Yes
Rolling Resistance Option	·	If No, Go To Damage	
	<del></del>	Vehicle 1 Steer Angles	
Vehicle 1 Rolling Re	esistance		° RF •
	RF		• RR •
	RR		
		Vehicle 2 Steer Angles	
Vehicle 2 Rolling Re	sistance	1	• RF •
LF	RF	LR	
LR	RR		
		Terrain Boundary [	]No [ ]Yes
		First Point	
		X	Y
		Second Point	
		X	Y
		Secondary Coefficient of	of Friction
	DARRAGE	I SORMATION	
	DAMAGEIN	IFORMATION	
VE	HICLE 1	VE	HICLE 2
Damage Length	L <u>/ 8 7</u> cm	Damage Length	L <u>/ 4 Ø</u> cm
Crush Depths	C, <u>\$ \$ \$ \$ cm</u>	Crush Depths	c, <u>Ø 4 Ø</u> cm
	C <sub>2</sub> <u>Ø Ø 5</u> cm		C <sub>2</sub> <u>Ø Ø Z</u> cm
	$C_3 \oplus \overline{Z} \otimes cm$		C <sub>3</sub> <u>&amp; 8 /</u> cm
	C, <u>4 8 5</u> cm		c. <u>Ø 9 5</u> cm
	$C_5$ $4$ $9$ $7$ cm		$C_5 / 2 cm$
	$C_6 \stackrel{?}{\cancel{2}} \stackrel{?}{\cancel{2}} \stackrel{?}{\cancel{2}} cm$		C <sub>6</sub> / Ø G cm
Damage Offset	D O	Damage Offset	D +
en stande <del>vo</del> rte, ye.		ALITA TRANSPORT FILL III	THE DEPORMATION BELOW
Model Year:		The Weight CDC Scene (	Data and Damago Information
Make:		for this vehicle should be re	Data and Damage Information ecorded above.
Model:			
VIN:			
Complete a	nd ATTACH the appropriate vehicl	e damage sketch and dimen	sions to the Form

DSI-95-SP-013

SPEED CHANGE		TOTAL (KPH)	LONG. (KPH)	LAT.(KPH)	ANG. (DEG)
(DAMAGE)	VEH #1	59.7	-58.8	-10.4	10.0
	VEH #2	87.9	-86.6	-15.3	10.0

ENERGY DISSIPATED BY DAMAGE VEH#1:474621.4 JOULES VEH#2:228616.2 JOULES

```
SUMMARY OF DAMAGE DATA
                               (* INDICATES DEFAULT VALUE)
          VEHICLE # 1
                                         VEHICLE # 2
TYPE-----CATEGORY 7
                                      TYPE-----CATEGORY 2
STIFFNESS---CATEGORY 7
                                      STIFFNESS---CATEGORY 2
                                      WEIGHT----- 1344.0 KGS
WEIGHT----- 1978.0 KGS
CDC-----12FDEW7
                                      CDC-----12FDEW4
L----- 187.0 CM.
                                      L----- 140.0 CM.
C1-----
               .0 CM.
                                      C1-----
                                                     40.0 CM.
C2----
              5.0 CM.
                                      C2----
                                                    82.0 CM.
                                                    81.0 CM.
C3-----
              22.0 CM.
                                      C3-----
C4-----
             85.0 CM.
                                      C4-----
                                                    95.0 CM.
C5-----
              97.0 CM.
                                      C5-----
                                                    102.0 CM.
C6-----
             123.0 CM.
                                      C6-----
                                                    106.0 CM.
              24.0 CM.
D-----
                                      D-----
                                                      .0 CM.
RHO-----
                                      RHO-----
              1.00
                                                     1.00
             10.0 DEG.
ANG-----
                                      ANG-----
                                                    10.0 DEG.
D'----
             65.9 CM.
                                      D' ----
                                                     7.0 CM.
                   DIMENSIONS AND INERTIAL PROPERTIES
A1
        123.2
                CM.
                                                     CM.
                                     A2
                                             117.6
                                          =
B1
        174.0
                CM.
                                     B2
                                             127.3
                                                     CM.
                                          =
TR1
        171.7
                CM.
                                     TR2
                                             138.7
                                                     CM.
                NEWT-SEC**2-CM
I1
       475628.0
                                            256853.0
                                                     NEWT-SEC**2-CM
                                     12
M1
     = 19.855
                NEWT-SEC**2/CM
                                    M2
                                            13.491
                                                     NEWT-SEC**2/CM
                                          =
       192.0
XF1
                CM.
                                    XF2
                                          =
                                            211.6
                                                     CM.
                                          = -232.7
XR1
     = -271.8
                CM.
                                    XR2
                                                     CM.
       100.3
YS1
                CM.
                                    YS2
                                              85.3
                                                     CM.
```

DSI-95-SP-013

SPEED CHANGE (DAMAGE)	VEH #1 VEH #2	TOTAL (MPH) 37.1 54.6	LONG. (MPH) -36.5 -53.8	LAT.(MPH) -6.4 -9.5	ANG.(DEG) 10.0 10.0
ENERGY DISSIPATED	BY DAMAGE	VEH#1:350015.	.8 FT-LB.	VEH#2:16859	6.0 FT-LB.

SUMMARY OF DAMAGE DATA VEHICLE # 1	(* INDICATES DEFAULT VALUE) VEHICLE # 2
TYPECATEGORY 7 STIFFNESSCATEGORY 7 WEIGHT 4360.7 LBS. CDC 73.6 IN. C1	TYPECATEGORY 2 STIFFNESSCATEGORY 2 WEIGHT 2963.0 LBS. CDC12FDEW4 L 55.1 IN. C1 15.7 IN. C2 32.3 IN. C3 31.9 IN. C4 37.4 IN. C5 40.2 IN. C6 41.7 IN. D 0 IN. RHO 1.00 * ANG 10.0 DEG. D' 2.8 IN.
DIMENSIONS A  A1 = 48.5 IN. B1 = 68.5 IN. TR1 = 67.6 IN. I1 = 42098.7 LB-SEC**2-IN M1 = 11.338 LB-SEC**2/IN XF1 = 75.6 IN. XR1 = -107.0 IN. YS1 = 39.5 IN.	ND INERTIAL PROPERTIES  A2 = 46.3 IN. B2 = 50.1 IN. TR2 = 54.6 IN. I2 = 22734.5 LB-SEC**2-IN M2 = 7.704 LB-SEC**2/IN XF2 = 83.3 IN. XR2 = -91.6 IN. YS2 = 33.6 IN.

SP-13 Vehicle 1 ebs

SPEED CHANGE (DAMAGE)	VEH #1	TOTAL(KPH) 76.2	LONG.(KPH) -75.1	LAT.(KPH) -13.2	ANG. (DEG) 10.0
	VEH #2	.0	.0	. 0	.0
ENERGY DISSIPATED	BY DAMAGE	VEH#1:474621	.4 JOULES	VEH#2:	.0 JOULES

SUMMARY OF DAMAGE DATA (* VEHICLE # 1	INDICATES DEFAULT VALUE) VEHICLE # 2
C4	TYPECATEGORY 11 STIFFNESSCATEGORY 0 WEIGHT999999.9 KGS * CDCBARRIER L
DIMENSIONS AND INE	RTIAL PROPERTIES
A1 = 123.2 CM. B1 = 174.0 CM. TR1 = 171.7 CM. I1 = 475628.0 NEWT-SEC**2-CM M1 = 19.855 NEWT-SEC**2/CM XF1 = 192.0 CM. XR1 = -271.8 CM. YS1 = 100.3 CM.	A2 = 127.0 CM. B2 = 127.0 CM. TR2 = 127.0 CM.  I2 =********** NEWT-SEC**2-CM M2 =******* NEWT-SEC**2/CM XF2 = 127.0 CM. XR2 = -127.0 CM. YS2 = 127.0 CM.

SP-13 Vehicle 1 ebs

SPEED CHANGE (DAMAGE)	VEH #1 VEH #2	TOTAL (MPH) 47.4 .0	LONG. (MPH) -46.6 .0	LAT.(MPH) -8.2 .0	ANG.(DEG) 10.0 .0
ENERGY DISSIPATED	BY DAMAGE	VEH#1:350015	.8 FT-LB.	VEH#2:	.0 FT-LB.

```
SUMMARY OF DAMAGE DATA
                                (* INDICATES DEFAULT VALUE)
          VEHICLE # 1
                                         VEHICLE # 2
TYPE-----CATEGORY 7
                                       TYPE-----CATEGORY 11
STIFFNESS---CATEGORY 7
                                       STIFFNESS---CATEGORY 0
WEIGHT----- 4360.7 LBS.
                                       WEIGHT-----2204586.0 LBS.
CDC-----12FDEW7
                                       CDC-----BARRIER
I.----
                                                      .0 IN.
              73.6 IN.
                                      L-----
              .0 IN.
C1-----
                                       C1-----
                                                      .0 IN.
C2-----
                                       C2-----
              2.0 IN.
                                                      .0 IN.
C3-----
              8.7 IN.
                                       C3-----
                                                      .0 IN.
C4-----
                                       C4-----
                                                      .0 IN.
              33.5 IN.
              38.2 IN.
C5-----
                                       C5-----
                                                      .0 IN.
C6-----
              48.4 IN.
                                      C6-----
                                                      .0 IN.
                                      D-----
              9.4 IN.
                                                      .0 IN.
RHO-----
              1.00
                                      RHO-----
                                                     1.00
ANG-----
                                                      .0 DEG.
              10.0 DEG.
                                      ANG-----
D'----
             25.9 IN.
                                      D'-----
                                                     25.9 IN.
                   DIMENSIONS AND INERTIAL PROPERTIES
A1
         48.5
                IN.
                                     A2
                                               50.0
                                                     IN.
                                          =
B1
         68.5
                 IN.
                                     В2
                                          =
                                               50.0
                                                      IN.
TR1
         67.6
                IN.
                                     TR2
                                               50.0
                                                     IN.
        42098.7
                LB-SEC**2-IN
                                          =5732151000.0 LB-SEC**2-IN
I1
                                     12
M1
     =
       11.338
                LB-SEC**2/IN
                                     M2
                                          =5732.151
                                                     LB-SEC**2/IN
XF1
        75.6
                IN.
                                     XF2
                                             50.0
                                                     IN.
                                          =
XR1
       -107.0
                IN.
                                     XR2
                                              -50.0
                                                     IN.
         39.5
YS1
                IN.
```

YS2

50.0

IN.

#### SP-13 Vehicle 2 ebs

YS1

85.3

CM.

SPEED CHANGE (DAMAGE)	VEH #1 VEH #2	TOTAL(KPH) 65.4 .0	LONG.(KPH) -64.4 .0	LAT.(KPH) -11.4 .0	ANG. (DEG) 10.0 .0
ENERGY DISSIPATED	BY DAMAG	E VEH#1:228616	.2 JOULES	VEH#2:	.0 JOULES

(\* INDICATES DEFAULT VALUE) SUMMARY OF DAMAGE DATA VEHICLE # 1 VEHICLE # 2 TYPE-----CATEGORY 2 STIFFNESS---CATEGORY 2 TYPE-----CATEGORY 11 STIFFNESS---CATEGORY 0 WEIGHT-----1344.0 KGS WEIGHT---- 999999.9 KGS CDC-----12FDEW4 CDC-----BARRIER L----- 140.0 CM. L-----.0 CM. C1-----40.0 CM. C1----.0 CM. C2----C2----.0 CM. 82.0 CM. C3----C3-----81.0 CM. .0 CM. C4-----95.0 CM. C4-----.0 CM. C5----- 102.0 CM. C5-----.0 CM. C6-----C6----106.0 CM. .0 CM. D-----.0 CM. D-----.0 CM. RHO-----1.00 RHO-----1.00 ANG-----.0 DEG. 10.0 DEG. ANG-----D' -----7.0 CM. D'----65.9 CM. DIMENSIONS AND INERTIAL PROPERTIES Α1 117.6 CM. 127.0 A2 CM. B1 127.3 CM. B2 127.0 CM. TR1 138.7 CM. TR2 = 127.0 CM. 256853.0 NEWT-SEC\*\*2-CM I1 =\*\*\*\*\*\*\*\*\*\*\* NEWT-SEC\*\*2-CM 12 = M1 NEWT-SEC\*\*2/CM =\*\*\*\*\*\* 13.491 M2 = NEWT-SEC\*\*2/CM XF1 211.6 CM. XF2 127.0 CM. = -232.7 -127.0 XR1 CM. XR2 CM.

YS2

127.0

CM.

SP-13 Vehicle 2 ebs

YS1

33.6

IN.

SPEED CHANGE		TOTAL (MPH)	LONG. (MPH)	LAT. (MPH)	ANG. (DEG)
(DAMAGE)	VEH #1	40.6	-40.0	-7.1	10.0
	VEH #2	.0	.0	.0	.0
ENERGY DISSIPATED	BY DAMAGE	VEH#1:168596	.0 FT-LB.	VEH#2:	.0 FT-LB.

SUMMARY OF DAMAGE DATA (\* INDICATES DEFAULT VALUE) VEHICLE # 1 VEHICLE # 2 TYPE-----CATEGORY 2 TYPE-----CATEGORY 11 STIFFNESS---CATEGORY 2 STIFFNESS---CATEGORY 0 WEIGHT-----2204586.0 LBS. WEIGHT----- 2963.0 LBS. CDC-----12FDEW4 CDC-----BARRIER L----55.1 IN. L-----.0 IN. C1-----15.7 IN. C1-----.0 IN. C2-----32.3 IN. C2-----.0 IN. C3-----31.9 IN. C3-----.0 IN. C4-----C4-----37.4 IN. .0 IN. C5-----.0 IN. 40.2 IN. C5-----41.7 IN. C6-----C6-----.0 IN. D-----.0 IN. D-----.0 IN. RHO-----RHO-----1.00 1.00 10.0 DEG. .0 DEG. ANG-----ANG-----D'----2.8 IN. D'----25.9 IN. DIMENSIONS AND INERTIAL PROPERTIES 46.3 **A**1 IN. 50.0 A2 IN. = В1 50.1 IN. B2 50.0 IN. = TR1 54.6 IN. TR2 50.0 IN. LB-SEC\*\*2-IN I1 22734.5 12 =5732151000.0 LB-SEC\*\*2-IN 7.704 M1 == LB-SEC\*\*2/IN M2 =5732.151 LB-SEC\*\*2/IN XF1 83.3 IN. XF2 50.0 IN. = XR1 -91.6 IN. XR2 -50.0 IN.

YS2

50.0

IN.



U.S. Department of Transportation

## **SMASH PROGRAM SUMMARY**

NATIONAL ACCIDENT SAMPLING SYSTEM

Administration	(7)	ivideadi dinama in ividency	CRASHWORTHINESS DATA SYSTEM					
Identifying Title								
<u></u>	95-SP-0/3	<u> </u>						
Primary Sampling Unit	Case NoStratum	Accident Event Sequence No.	Date (Month, day, year) of Run					
GENERAL INFORMATION								
VEHIC	CLE I		VEHICLE 2					
NASS Vehicle Number		<del></del>	NASS Vehicle Number					
Year	198	<u>3                                    </u>	<u> </u>					
Make DODGE			0407A					
Model RAM VA	IN	<del></del>	ELICA					
Body Style	<u></u>	<u> </u>	$\frac{3H}{1}$					
CDC _	LZFDEN	<u>17</u> CDC	12FDEW4					
PDOF	<i>⊕_⊈_/_</i> <u> </u>	<u>D</u> • PDOF	± •					
Heading Angle	±	° Heading Angle	± °					
VEHICLE SPECIFICATIONS								
VEHIC	LE I		VEHICLE 2					
Wheelbase	3 3 4	cm Wheelbase	<u> 2 5 5 cm</u>					
Overall Length	3 4 9	cm Overall Length	<u>442</u> cm					
Overall Width	203	-						
Weight	8=1978	-	Weight   272 + 720 + 0 =   3 4 4 kg					
<b>,</b> ,								
Curb Occupant(s) Cargo		Curb Occupa						
Engine Displacement	<u>5</u> . <u>ā</u> R W		nent Z.Z.L FWD					
Drive System Size	<u> </u>	D Drive System  7 Size						
Stiffness	-	7 Stiffness	$\frac{2}{2}$					
Ottimess		Sumess	<u>&amp;</u>					
DAMAGE INFORMATION								
VEHIC	LE I	./	VEHICLE 2					
Damage known?	, , _	Damage known?	, , , <del>, ,</del>					
Damage Length	<u> </u>	cm Damage Length	cm					
Damage Offset	(4) (4) (4)	cm Damage Offset	± <u>Ø</u> <u>Ø</u> cm					
Crush Depth:	C1 <u> </u>	cm Crush Depth:	C1 <u>47 4 0</u> cm					
	C2 Ø Ø S	cm	C2 <u>Ø 8 d</u> cm					
	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	cm	C3 <u>// 8 /</u> cm					
	C4 <u>Ø 8 5</u> CE Ø 9 7	cm	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$					
	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	cm	C5 / Ø < cm					
	C6 123	cm	C6 / Ø 6 cm					

SCENE INFORMATION								
	and the second of the second o	l Impact Positi	ons [ ] No [					
Rest	VEHICLE 1 X	m	Rest	VEHICLE 2 X	m			
Position	Υ		Position	V	m			
:	PSI	•		PSI	٥			
Impact	x	m	Impact	x	m			
Position	Υ	m	Position	Υ	m			
	PSI	· · · · · · · · · · · · · · · · · · ·		PSI	· ·			
Slip Angle (-180 to +180) °			Slip Angle (-180 to +180) °					
		VEHICLE	MOTION					
Sustained Contact [ ] No [ ] Yes VEHICLE 1			Sustained Contact [ ] No [ ] Yes VEHICLE 2					
Vehicle Rotation Rotation Stop	[ ] No	[ ] Yes [ ] Yes	Vehicle Rotation Rotation St	n [	INa [ ]Yes  No [ ]Yes			
End of Rotation	n X	m	End of Rota	ation X	m			
Position	Υ	m	Position	Υ	m			
Curved Path	PSI [ ] No	l J Yes	Curved Path	PSI [	No [ ] Yes			
Point on Path X Rotation Direction	m Y [ ] None [ ] CW	m [ ] CCW	Point on Pa X Rotation Directi	m Y	m CW   ] CCW			
Rotation >360°	[]No []Yes	_	Rotation > 36					
FRICTION INFORMATION								
Coefficient of Fric Rolling Resistance					·			
Vehicle 1 Rolling Resistance			Vehicle 2 Rolling Resistance					
LF	RF	_	LF	RF				
LR	RR	<del>-</del>	LR	RR				
F THIS COLUM	CL MEACT TAS LITERA	CDS TEFFCLE A	IOT IN TRANSPORT,	, FILL IN THE INFORMAT	ON BELOY			
Model Year:	7			c, Scene Data and Dama nould be recorded above				
Make:		····	Complete an	d ATTACH the sooro	priate			
Model:					the form.			
VIN:								